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GT. BRIT. AIR MINISTRY

The air offensive against Germany

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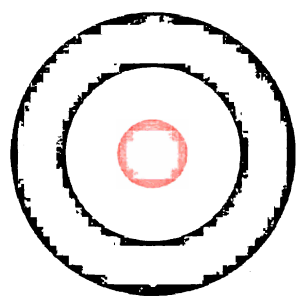

THE AIR OFFENSIVE AGAINST GERMANY

Gt. Britain Air Ministry

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THE AIR OFFENSIVE AGAINST GERMANY

Gt. Britain. Air Ministry

THE MAP

overleaf shows details of major bombing attacks carried out by the Royal Air Force on German territory between the outbreak of war and February 1st, 1941. An enlarged map of the Ruhr area, indicated by a red square on the map overleaf, appears on the inside back cover of this brochure.

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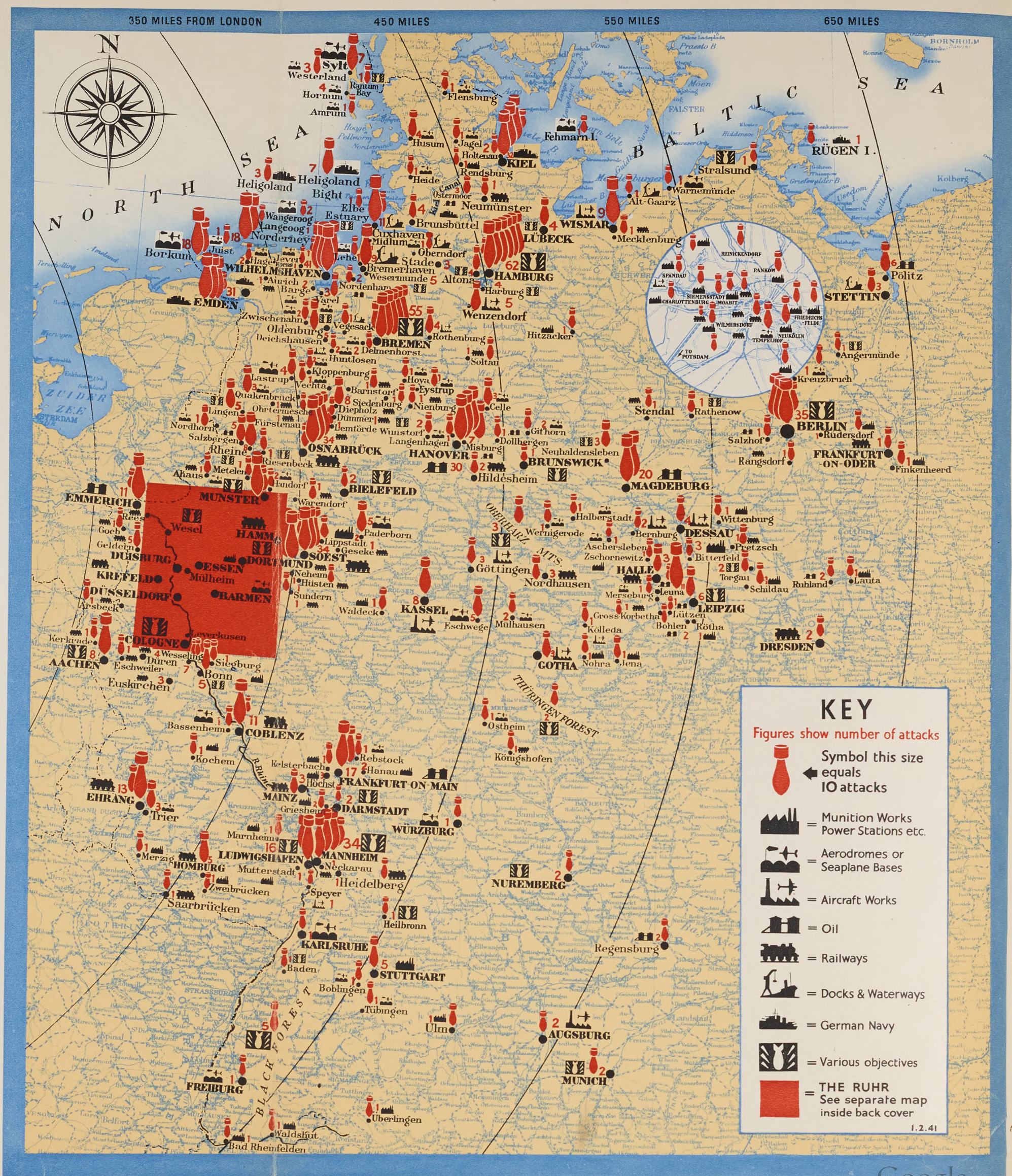

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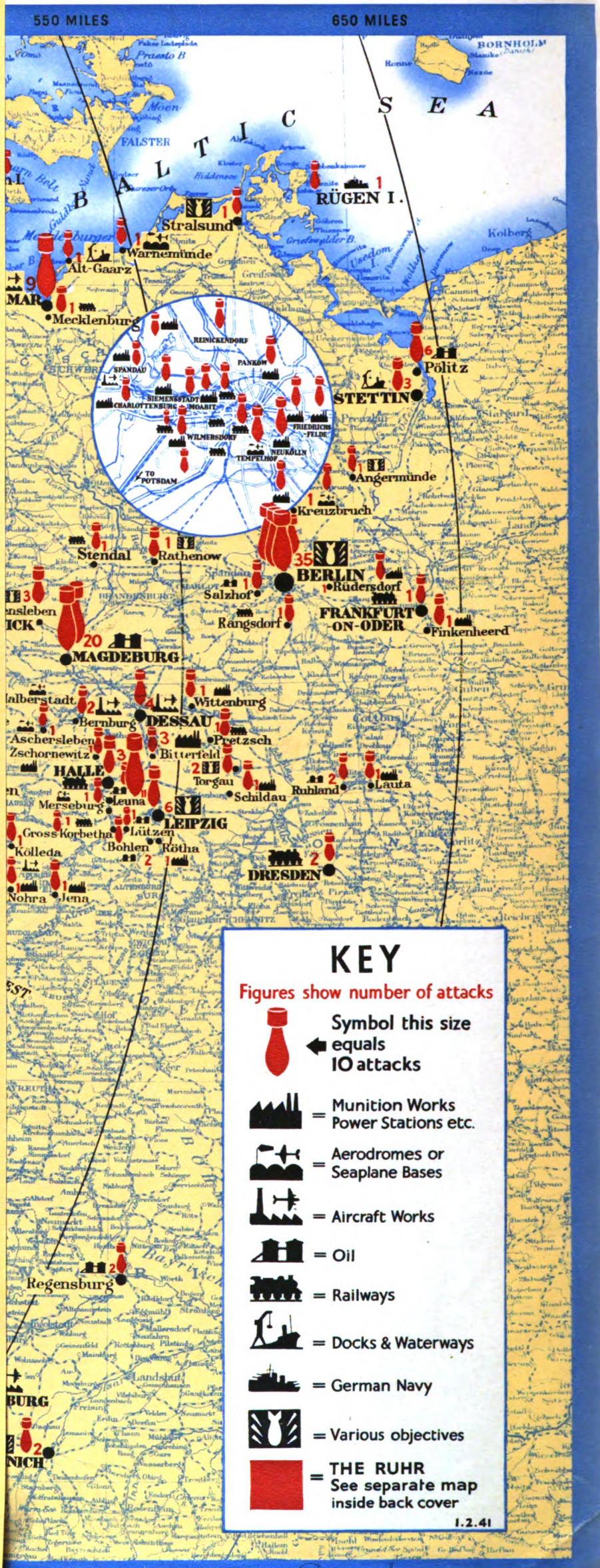

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ON THE NINTH OF AUGUST, 1939, Hermann Göring made this boast: "As Reichsminister for Air, I have convinced myself personally of the measures taken to protect the Ruhr against air attack. In future I will look after every battery, for we will not expose the Ruhr to *a single bomb* dropped by enemy aircraft."

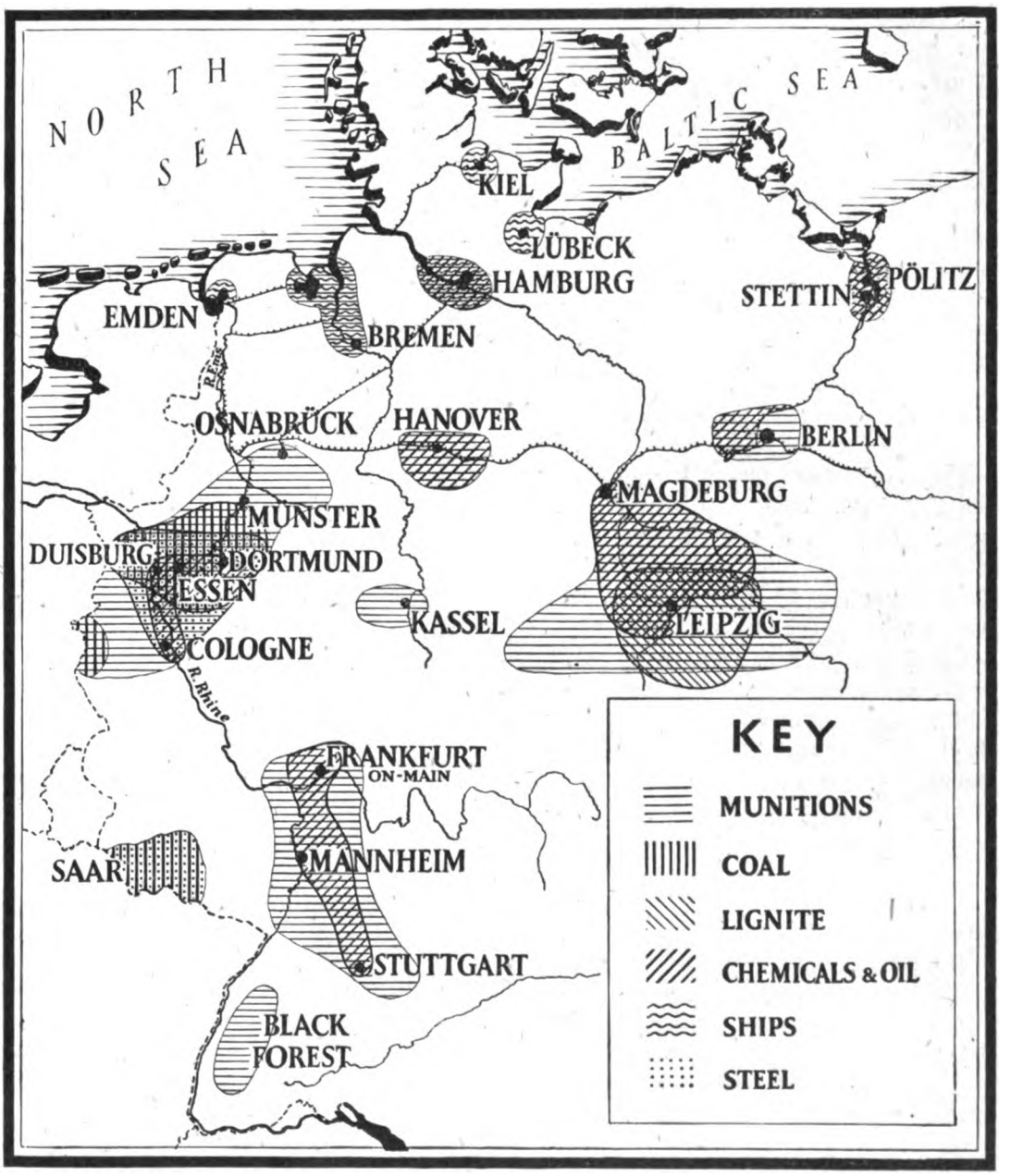
By the end of January, 1941, the Ruhr's great railway centre, Hamm, alone, had been bombed on 82 occasions by the Royal Air Force.

On the 20th of May, 1940, the Reichsmarshal, visiting Hamburg to allay the fears of the population, which had been aroused because anti-aircraft guns had failed to stop British raids, had to promise that more guns should be provided.

By the end of January, 1941. Hamburg had been bombed on over 60 occasions.

Some idea of the persistence and precision of the bombing attacks made on Germany by the Royal Air Force is given in the maps and facts contained herein.

The maps show the vast web of destruction woven day after day and night after night by British bombers, who have struck at over 270 target areas of military and strategic importance in Germany; the detailed facts indicate how this web is clogging Hitler's



This sketch-map indicates the principal industrialised areas of Germany. It is interesting to compare this map with the larger map opposite which shows the areas in which bombing raids by the R.A.F. have been carried out.

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industrial and war machine. Since the outbreak of war, 1,500 area raids have been carried out on German territory, from the Baltic Sea to Switzerland, from the North Sea hundreds of miles inland to Berlin and beyond. These are in addition to raids made on hundreds of other occasions on points of military importance outside Germany and, apart from Danzig and Pilsen, not included in the lists which follow.

British bombing attacks on Germany have the twofold aim of destroying the industrial basis of Germany's war effort and of producing a situation in which shortage of essential war supplies will sap the energy and effectiveness of the German armed forces. In this way, they reinforce blockade at sea and supplement the attacks on concentrations of troops and materials in the " invasion ports " and on warships seeking refuge in German naval bases.

The offensive against industrial Germany has taken the direct form of attacks on key points and the indirect form of attacks on other targets which have resulted in a general slowing-up of German war production and in the dislocation of a wide range of German industry.

There is no need to stress the importance of oil to Germany. Continuous attacks have been made on Germany's oil refineries, storage tanks and synthetic-oil production plants.

Germany produces about one million tons of crude oil annually from her own wells, and refines it in plants which are mostly situated in the Hamburg, Bremen, Hanover and Rhineland areas. Her total output of synthetic oil is in the neighbourhood of 3½ million tons per annum, of which 2½ million tons comes from the synthetic-oil plants proper and the remainder is made up of the by-product output of benzol and petrol from gasworks, coke ovens, and low-temperature carbonization units. Germany has been getting some petroleum products from Russia, but Russian output can hardly keep pace with the rising home demand, and Russia can spare little. The Roumanian output has usually been in the neighbourhood of 6 million tons per year of crude oil. Germany has now seized control of this, but in practice will have great difficulty in utilising the whole of it owing to transport difficulties. In peace-time, Germany's oil imports from Roumania came by sea through the Mediterranean. Now, thanks to our control of the eastern Mediterranean, they must all be carried up the Danube or by the Balkan railways. The capacity of these routes is limited, as is the number of tanker barges and railway containers.

The synthetic-oil plants and the refineries in Germany itself are a vital factor in the German war economy, since the synthetic-oil plants are responsible for the bulk of supplies of aviation spirit for the German Air Force, and of high-grade diesel oil for the submarine fleet, whilst certain of the oil refineries are the chief source of Germany's slender supplies of high-quality lubricating oil. Air attacks have been delivered against plants representing 90 per cent. of Germany's synthetic-oil capacity. Some of the heaviest attacks have been delivered at the famous Leuna hydrogenation plant which produces up to half-a-million tons of synthetic oil per year, at the Pölitz (Stettin) plant which, when completed, will be almost as large, at the plants at Gelsenkirchen, and at the new Wesseling plant on the Rhine (only recently in production). These hydrogenation plants are responsible for the greater part of Germany's synthetic-oil output. It must not, however, be assumed that as a result of an air attack a plant is necessarily completely destroyed or put out of production for a long period.

The German aircraft industry is a tree with many roots. Light alloys are the materials of which the greater part of a modern aircraft is made. The other principal branches of the industry are the works where aero-engines and aircraft are made and assembled and those which produce special components, such as airscrews, electrical equipment and instruments, apart from the parks, depots and repair establishments of the German Air Force itself, where aircraft damaged in flights over Great Britain are patched up for further service. The number of works involved in these activities is numerous. Many of them (e.g. the B.M.W. aero-engine works at Munich and Berlin, the Focke-Wulf factory at Bremen, the Messerschmitt and Junkers works at Augsburg and Dessau) have been attacked by the Royal Air Force bombers. One at least of the aircraft factories—the Dornier works at Wismar on the Baltic coast—is believed to have been

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so seriously damaged that it is doubtful whether it has been able to contribute more than a fraction of its normal quota towards the replacement of the flights of bombers which have been shot down over Great Britain. Moreover, some of the factories making key equipment, such as the Siemens electrical works in Berlin, the Bosch magneto and sparking-plug factories at Stuttgart and the famous Zeiss instrument works at Jena are among those which have suffered heavy damage.

Other vital points which have been attacked include the great chemical works in the Rhineland, the Krupp works at Essen, which produce a million tons of steel per annum as well as the heaviest types of armaments, and munitions, explosives and chemical factories, including the great I.G. Farbenindustrie works at Ludwigshafen and Leverkusen.

Another field in which the bombers of the Royal Air Force have been active is the bombing of ports, docks, railways and canals. Although most of Germany's sea-borne trade has now been cut off, the trade which remains to her in the Baltic is of considerable importance for maintaining supplies of such materials as Scandinavian timber and ores and, above all, for maintaining the flow of export deliveries to Russia without which vital supplies from Russia could not be paid for. Owing to extensive damage to the harbour facilities, such as berths and cranes and the sinking of ships in the fairways, loading and unloading at the great north-German ports of Hamburg and Bremen has become a slow and laborious business. It is accomplished mainly by the use of ships' derricks in the absence of better facilities ashore, and all ships using these ports must run the gauntlet of the mines laid in the channels by British aircraft.

For internal transport, Germany has always placed much reliance upon the canal system, especially for the distribution of heavy commodities, such as coal, coke, ore, steel and timber. With the cessation of all sea-borne trade with eastern Europe, and with the demand on rail transport for military supplies especially for the armies of occupation on the Channel coast, the maximum use of the canals for inland distributive purposes is a matter of great importance to Germany in order to reduce the demands on the railway system as much as possible. The celebrated Dortmund-Ems aqueduct is one of the most important points in the canal system, since the Dortmund-Ems canal is the only water link of the Ruhr heavy industry area with north, west and central Germany, and carries the equivalent of several hundred trainloads daily. The attacks of the R.A.F. on this vulnerable point of the canal have succeeded in interrupting the traffic for long periods and throwing back the load upon the railways.

Meanwhile, the railways themselves have not escaped unscathed. The almost nightly visits to Hamm, Soest, Schwerte, Osnabrück, Krefeld, etc., in the Ruhr and other industrial areas in which goods trains are made up for despatch to all parts of Germany, have resulted not only in physical damage to the yards themselves and to the trainloads of goods standing there, but also in the dislocation and interruption of activity at these vital centres during the hours of the night when their chief work is carried out. This dislocation has had far-reaching results throughout the German railway system in holding up trains and wrecking the time-schedules. The delay to trains caused by these attacks has created an acute shortage of wagons in Germany—so much that the long-distance transport of certain commodities has been forbidden ; special measures have been taken at the expense of frequency of deliveries, to avoid the use of marshalling yards for certain classes of transport ; and important long-distance import and export traffic by rail, such as the delivery of coal to Denmark, has been seriously interrupted or entirely cut off. Moreover, dislocation of transport in western Germany has created increasing difficulties in filling Italy's vital needs of coal, which has to be carried more than ever from Silesia and Saxony via Vienna—a development which not only places a further load on the inadequate supply of wagons, owing to the longer journey, but adds to the congestion of traffic in the east which the Nazis would doubtless like to keep as free as possible for transporting their supplies from south-eastern Europe.

An incidental contribution to the difficulties of the German transport system has been provided by the destruction of barges in the Channel ports. Most of these were withdrawn from their normal activities on the waterways of Germany, Holland and Belgium. Many of them will never return and their loss will accentuate the shortage which was already in evidence before their withdrawal.

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Many power stations and gasworks have also been hit. Interruption of electricity supplies will be the more severely felt because Germany has for years suffered from a shortage of electricity—struggling always to expand generating capacity in pace with the increasing and insatiable demand of the "Ersatz" industries, most of which are voracious consumers of electric power.

For this reason the full effects of the uninterrupted raids carried out by the R.A.F., the widespread nature of which will be seen from the accompanying maps, will not be seen in days or even in weeks. But steadily and inexorably the grip will tighten upon the nerve centres of German resistance until it becomes a stranglehold. To this end, not a bomb that has been dropped upon Germany has been wasted, and, as far as the precision of British pilots can ensure it, not a bomb *will* be wasted.

On the 31st of January, 1941, at the end of the period covered by the list of British air attacks which follows, another speech was made by a Nazi air chief. This time it was Field-Marshal General Milch, Air-Secretary of State and Inspector General of the German Air Force. Broadcasting from Deutschlandsender, General Milch said that many people were asking how it was possible that the enemy was able to penetrate so deeply into Germany. He went on to make a speech on the difficulties of defence against night bombing attacks by fighters and anti-aircraft guns. It was not reported that Reichsmarshal Göring also spoke on this occasion.

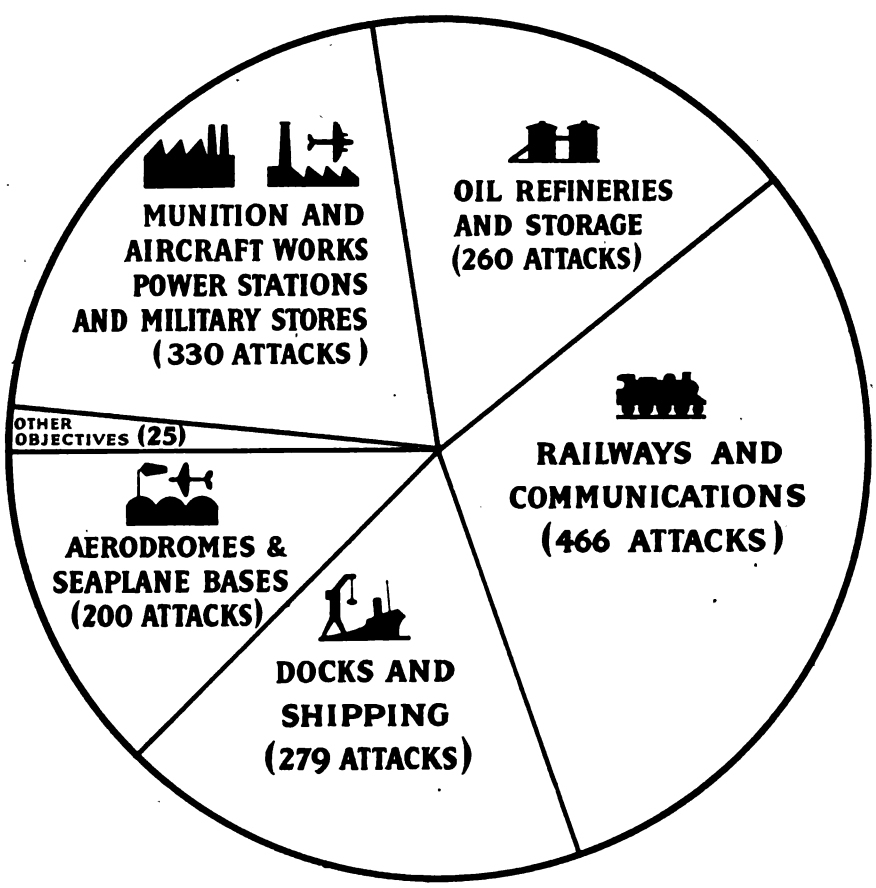

DIAGRAM SHOWING THE PROPORTION OF OBJECTIVES OF DIFFERENT TYPES ATTACKED UP TO 1ST OF FEBRUARY, 1941

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DETAILS OF THE ATTACKS

Following is a list of major bombing attacks carried out by the Royal Air Force over German territory between the outbreak of war, 3rd of September, 1939, and the 1st of February, 1941, as reported in communiqués issued by the Air Ministry. The name of the area visited is given in each case, together with the date of the attack and the objectives bombed. Minor bombing attacks, leaflet- and reconnaissance-sorties are not included. The number appearing in brackets after the description of the objectives bombed is that of the Air Ministry communiqué reporting the attack.

AREA	*DATE OF ATTACK*	*OBJECTIVES BOMBED*
AACHEN		
	22.5.40	Marshalling yards and bridges, wide area radiating from Aachen. (*734/737*)
	27.5.40	Various objectives and railway junction. (*777*)
	7.6.40	Railway line and tunnel few miles south of Aachen. (*852*)
	10.6.40	Railway line bombed one mile north-east of Aachen. (*873*)
	18.6.40	Various objectives. (*908*)
	4.7.40	Aerodrome. (*1016*)
	5.7.40	,, (*1030*)
	14/15.9.40	Supply depots and goods yards. (*1725/1729*)
AHAUS		
	15.9.40	Rail communications. (*1729*)
ALDEKERK		
	11.5.40	Railway and road junctions and bridges. (*664*)
ALT-GAARZ		
	14/15.10.40	Harbour works. (*2004*)
ALTONA		
	2.8.40	Dock. (*1281*)
	15/16.11.40	Electric power station. (*2279/2280*)
	16/17.11.40	Electricity works. (*2285/2291*)
	24/25.11.40	Gasworks. (*2359/2363*)
AMRUM		
	2.8.40	Aerodrome. (*1281*)
ANGERMÜNDE		
	26/27.9.40	Direct hits on motor roads west of Angermünde. (*1837*)
ARSBECK		
	19.6.40	Railway junction. (*913*)
ASCHERSLEBEN		
	29/30.9.40	Aerodrome. (*1867*)
AUGSBURG		
	17.8.40	Bayerische Flugzeugwerke Messerschmitt factory. (*1413*)
	28.8.40	Messerschmitt factory. (*1518*)
AURICH		
	19/20.11.40	Railway junction. (*2315/2318*)
BADEN		
	30.6.40	Various objectives in region of Baden. (*981*)
BAD RHEINFELDEN		
	19.8.40	Aluminium works. (*1434*)
BARGE		
	30.6.40	Aerodrome. (*981*)
	10/11.9.40	,, (*1686*)
BARMEN		
	18.6.40	Aerodrome buildings. (*908*)
BARNSTORF		
	9/10.9.40	Railway junction. (*1677*)
BASSENHEIM		
	29.9.40	Aerodrome near Bassenheim. (*1858*)
BERLIN		
	26/27.8.40	Various objectives, A.A. batteries and searchlight concentrations on the outskirts of the capital bombed. (*1500/1501*)
BERLIN (*continued*)		
	28/29.8.40	Several important targets heavily bombed. (*1530/1531*)
	31.8.40	Various targets, which included petrol installations, aircraft factories and aerodromes, attacked. Fires and explosions resulted and it is estimated that considerable damage was done. (*1559/1562/1563*)
	31/1.9.40	Various objectives, including aircraft factories and aerodromes, attacked. (*1578/1580*)
	2/3.9.40	Electric power stations attacked also armament factory. (*1612/1613*)
	4/5.9.40	Power station at Charlottenburg and aircraft component factory in Spandau district attacked, heavy bombs dropped, all on target area. Fires and big flashes suggested short-circuiting of the electrical installations. (*1624/1625*)
	6/7.9.40	Power station, aeroplane factory, oil reservoirs and railway sidings attacked. Aero-engine works at Spandau set on fire. (*1646*)
	9/10.9.40	Neukölln gasworks in Berlin suburb heavily bombed. (*1677*)
	10/11.9.40	Potsdamer station in the centre of the city repeatedly hit with heavy bombs and several hundred incendiaries, one large fire and several small ones seen to break out. (*1684/1688*)
	11/12.9.40	Anhalter station bombed, also a large railway yard south of Potsdam straddled with heavy and incendiary bombs. A.A. battery in the Tiergarten bombed. Tempelhof aerodrome attacked. (*1700/1702/1704*)
	14/15.9.40	Tempelhof aerodrome bombed, also power station and various objectives to the north-west of the city. (*1739/1740/1741*)
	23/24.9.40	Various objectives attacked in the Berlin area including: Grunewald goods yard, Wilmersdorf electric power station, Danzigerstrasse gasworks, Neukölln gasworks, Brandenburg motor works, West power station at Charlottenburg, Moabit and Klingenberg power stations, railway junction to the east of the West power station, Siemens cable works, B.M.W. aero-engine works at Spandau, Tempelhof aerodrome, Potsdamer station, junction near Potsdam, railway yards near Potsdamer and Lehrter railway stations, Friedrichsfelde transformer station. (*1801/1802/1806*)
	24/25.9.40	Number of military objectives in the heart of the city attacked, including the transformer station at Friedrichsfelde. A blast furnace in the south-eastern suburbs and the Siemens and Halske factories also bombed. (*1813/1814*)
	25/26.9.40	Attacks on Klingenberg power station. West power station, Schöneberg railway yard, on the

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AREA	DATE OF ATTACK	OBJECTIVES BOMBED
BERLIN (*continued*)		
		main railway junction near the Charlottenburg district, the Tempelhof aerodrome and nearby railway sidings. (*1823/1825*)
	29.9.40	West power station, Friedrichsfelde main transformer and switching station, A.A. gun positions. (*1858/1860*)
	30/1.10.40	West power station, Klingenberg power station, railways, factory (*1875/1876/1878*)
	1/2.10.40	Electrical equipment factory (*1881/1882*)
	7/8.10.40	Moabit power station, West power station, Tegel gasworks, Wilmersdorf power station, B.M.W. aero-engine works at Spandau, electrical equipment factory at Gartenfeld, main line at Rummelsburg, Charlottenburg railway yards, Tempelhof railway yards and goods sidings. (*1941/1943*)
	12/13.10.40	Electric power station, gasworks, goods yards and several other targets. (*1986/1988*)
	14/15.10.40	Various objectives, including Danzigerstrasse gasworks, Tempelhof railway yards, sidings near Lehrter station. (*2001/2002*)
	20/21.10.40	Guter Moabit railway yard, north-western suburb industrial target, important target in heart of city, Putlitzstrasse railway yards, Lehrter railway yards, Charlottenburg goods sidings, other targets in central area. (*2046/2048*)
	23/24.10.40	Berliner electricity works at Charlottenburg, Klingenberg power station, Tempelhof, Lehrter and Putlitzstrasse railway yards, Potsdamer station. (*2072/2074*)
	23/24.10.40	Factory east of Berlin. (*2077*)
	24/25.10.40	Putlitzstrasse and Lehrter railway yards. Targets in central Berlin. (*2081/2083*)
	26/27.10.40	Moabit power station, Putlitzstrasse and Lehrter main railway yards, B.M.W. aero-engine factory at Spandau. (*2101/2102*)
	29/30.10.40	Electrical works and various targets. (*2126/2127*)
	1/2.11.40	Klingenberg power station, Charlottenburg power station, Putlitzer railway yard. Goods yards between Lehrter and Putlitzstrasse stations and between Potsdamer and Anhalter stations. Tiergarten railway station. Schlesischer station. Brunnenstrasse main line junction. (*2157/2159/2162*)
	6/7.11.40	Spandau aero-engine works. Railway junction north-west of the city. (*2193/2195*)
	13/14.11.40	Schlesischer railway station. Grunewald goods yards and main line tracks. Railway junction near Potsdam. Tempelhof railway yards. (*2256/2259*)
	14/15.11.40	Schlesischer station and goods yards. Railway yards at the Putlitzstrasse, Lehrter, Anhalter and Tempelhof stations. Anhalter and Stettiner railway stations. Goods yards between Potsdamer and Anhalter stations. Section of Nordenbahn. Charlottenburg power station. Wilmersdorf power station. (*2266/2271*)
	19/20.11.40	Electrical equipment factory, railway goods yards, various other objectives. (*2315/2318*)
	23/24.11.40	Putlitzstrasse and Lehrter railway goods yards, railway yards between Potsdamer and Anhalter stations, Potsdamer station. (*2349/2350/2352*)
BERLIN (*continued*)		
	26/27.11.40	Railways. (*2379/2380*)
	15/16.12.40	Factories, railway objectives, power stations, goods yards. (*2532/2534*)
	20/21.12.40	Aero-engine factory, main railway station, A.A. batteries and searchlights, goods yards, factories, railway stations, West Harbour. (*2574/2578*)
BERNBURG		
	14.8.40	Subsidiary Junkers factory. (*1375*)
	16.8.40	Junkers assembly plant. (*1413*)
BIELEFELD		
	20.6.40	Various objectives. (*926*)
	23.7.40	Aerodrome. (*1196*)
BITTERFELD		
	1/2.9.40	Aluminium works. (*1586/88/89*)
	29/30.9.40	,, ,, (*1865*)
	12/13.10.40	Two aluminium alloy smelting plants. (*1986/1990*)
BLACK FOREST		
	2/3.9.40	Various objectives. (*1612/1614*)
	4/5.9.40	,, ,, (*1624/1625*)
	5/6.9.40	,, ,, (*1635/1638*)
	6/7.9.40	,, ,, (*1646*)
	7/8.9.40	War materials stores. (*1663*)
BOBLINGEN		
	2/3.9.40	Aerodrome. (*1568*)
BOCHUM		
	6/7.9.40	Railway sidings. (*1653*)
BOHLEN		
	17.8.40	Oil plant. (*1413*)
	14/15.10.40	,, ,, (*2001/2004*)
BOMLITZ		
	19.7.40	Aerodrome. (*1161*)
	6/7.11.40	,, (*2195*)
BONN		
	22.5.40	Aerodrome. (*738*)
	15.6.40	Railway line. (*898*)
	27.6.40	Aerodrome. (*966*)
	30.8.40	Blast furnace near Bonn. (*1545*)
	19/20.12.40	Goods yards. (*2564/2567*)
BÖNNINGHARDT		
	14.7.40	Aircraft. (*1124*)
BORKUM		
	28.11.39	Seaplane base. (*186*)
	13.12.39	,, ,, (*232*)
	15.12.39	,, ,, (*239*)
	17.3.40	Naval ships near Borkum. (*457*)
	20.6.40	Aerodrome. (*926*)
	26.6.40	,, (*959*)
	30.6.40	,, (*981*)
	10.7.40	,, (*1087*)
	14.7.40	Seaplane base. (*1124*)
	25.7.40	,, ,, (*1212/1213*)
	6.8.40	Aerodrome. (*1299*)
	13.8.40	Seaplane base. (*1362/1363*)
	12.9.40	Aerodrome and seaplane base. (*1702*)
	22.9.40	Supply ship south of Borkum. (*1790*)
	2/3.10.40	Aerodrome. (*1893/1896*)
	13/14.10.40	Gun positions. (*1997*)
	15/16.11.40	Seaplane base. (*2280*)
	8/9.1.41	Aerodrome. (*2729/2735*)
BOTTROP		
	26.7.40	Scimmerf-Muhlieme synthetic-oil works. (*1223/1224*)
	4.8.40	Oil plant. (*1286*)
	23.8.40	,, ,, (*1470/1471*)
	30.8.40	Oil plant and tanks. (*1545/1546*)
	2/3.10.40	Oil plant. (*1893/1896*)
	10/11.10.40	Factories. (*1967/1971*)

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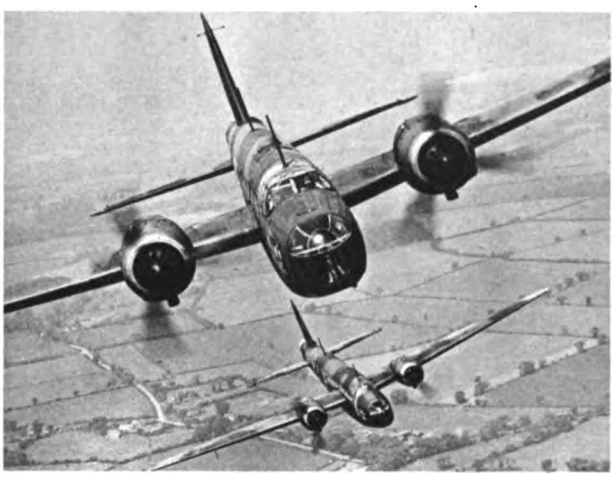

Britain's air offensive, unlike Germany's, is based on precise advance information compiled as the result of months of daring reconnaissance work. From the first weeks of the war continuous flights were carried out over Germany. In the first few months of the war and before the bombing attacks on Germany's industrial framework began the R.A.F. had flown nearly a million miles over enemy territory.

The advance work of the air-camera makes the bomber's later journey successful. R.A.F. photographs of munition works, aerodromes and ammunition dumps, oil plants and storage tanks, docks and ship-building yards, railway junctions and marshalling yards, canals and roads, bridges and viaducts, taken from varying heights and angles, are one of the secrets of the deadly precision of British bombing.

Photographic records of military objectives enable the Air Staff to work out a strategy of attack based on first-hand information, and provide British bomber crews with exact data about the position and appearance of their objectives in relation to adjoining landmarks.

The results of the patient photographic reconnaissance carried out by the R.A.F. over Germany are carefully pieced together to form accurate large-scale photographs of target areas. These aerial maps or "mosaics," together with the detailed reconnaissance reports, enable the Air Staff at Bomber Command Headquarters to draft, with remarkable thoroughness, the tactical instructions for the later attack. The mosaic of Wilhelmshaven above shows how the photographs of adjoining areas fit together like a jig-saw.

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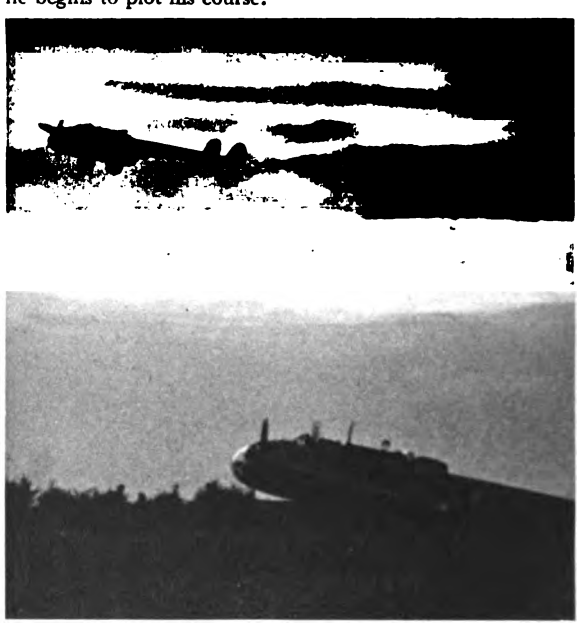
Before the bombing raid the pilots, observers and navigators of a squadron receive detailed instructions. This is called "briefing." The entry of every aircraft into the target area is timed to a second. The shirt-sleeved Squadron Commander reads the night's operation orders. The Intelligence Officer adds his knowledge of the likely opposition to be encountered and the entire tactics for the attack are gone over in detail.

Skilled hands prepare the giant bombers for their work. A Vickers "Wellington" aircraft "bombing-up"—its bomb-racks being loaded with 250-lb. high-explosive bombs. The R.A.F.'s "precision" attacks are damaging vital parts of Hitler's war machine, stopping production, reinforcing the blockade.

The responsibility for directing the aircraft on to the target area and "pin-pointing" the exact objective rests with the navigator-bomb-aimer. Immediately after the "briefing" he begins to plot his course.



A loaded bomber roars into the night sky *en route* for Germany. A few seconds pass and another follows—and another—and another. Every aircraft is linked by wireless with the Squadron Commander and with the Operations Room at home.

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AREA	DATE OF ATTACK	OBJECTIVES BOMBED
BOTTROP *(continued)*		
	24/25.10.40	Goods yards. Blast furnaces and main line tracks near Bottrop. (2083/2085)
BREMEN		
	18.5.40	Storage tanks. (706/711)
	28.5.40	Targets near Bremen. (787)
	19.6.40	Oil tanks. (913/914)
	22.6.40	Factories, Focke-Wulf aircraft works. (940)
	26.6.40	Aircraft factory, supply train. (959)
	27.6.40	Oil refinery. (966)
	1.7.40	Oil refinery and aircraft factory. (987)
	5.7.40	Aircraft factory. (1030/1031)
	7.7.40	Shipbuilding yard. (1049)
	10.7.40	Naval dockyards. (1087)
	12.7.40	Docks. (1105)
	14.7.40	Docks and aircraft factories. (1123/1124)
	15.7.40	Focke-Wulf aircraft factory and oil refinery. (1130/1131)
	19.7.40	Focke-Wulf aircraft factory and oil depot. (1158/1161)
	20.7.40	Focke-Wulf aircraft factory and oil depot. (1161)
	21.7.40	Docks. (1169)
	22.7.40	Focke-Wulf aircraft factory, also oil storage. (1179)
	22.7.40	Oil tank. (1191)
	23.7.40	Focke-Wulf aircraft factory. (1196)
	24.7.40	Aerodrome. (1206)
	26.7.40	Oil supplies. (1223/1224)
	28.7.40	Docks and wharves. (1242)
	26.8.40	Docks. (1500)
	31.8.40	Railway junction, goods yards. (1563)
	8/9.9.40	Barge concentrations and shipping. (1670)
	9/10.9.40	Dockyards. (1677)
	10/11.9.40	Docks, Focke-Wulf aircraft factory. (1686/1690)
	11/12.9.40	Shipbuilding premises. (1702/1704)
	23/24.9.40	Shipyards and docks. (1806)
	26/27.9.40	Port and dockyards. (1837)
	29.9.40	Dockyards. (1858)
	30/1.10.40	Goods yards and rail communications. (1875/1876/1878)
	7/8.10.40	Aerodrome. (1935/1943)
	8/9.10.40	Shipbuilding yards. (1948/1952)
	11/12.10.40	Docks. (1981)
	12/13.10.40	Highway bridge. (1990)
	16/17.10.40	Docks. (2019)
	23/24.10.40	Factory east of Bremen. (2077)
	24/25.10.40	Rail junctions near Bremen. (2085)
	25/26.10.40	Docks. (2091/2092)
	26/27.10.40	Naval docks, railway communications and two bridges near Bremen. (2101/2102)
	28/29.10.40	Deutsche Schiff und Maschinenbau A.G. yards, warehouses and dockside factories. (2117/2118)
	29/30.10.40	Docks. (2127/2130)
	5/6.11.40	Naval dockyards. (2185/2190)
	10/11.11.40	Oil storage tanks. (2232/2235)
	14/15.11.40	Aircraft factory. (2270/2271)
	16.11.40	Oil refinery. (2285)
	19/20.11.40	Railways. (2315/2318)
	29/30.11.40	Deutsche Schiff und Maschinenbau A.G. naval shipbuilding yards. (2397/2398)
	9/10.12.40	Aircraft factory. (2487)
	13/14.12.40	Factories, railways, warehouses. (2516/2517)
	15/16.12.40	Port. (2532)
	1/2.1.41	Shipbuilding yards. Deutsche vacuum-oil refineries. Gebrüder Nielson rice and starch mills. Focke-Wulf airframe factory. Railway communications. Warehouses. (2672/2674)
BREMEN *(continued.)*		
	2/3.1.41	Atlas and "Deschimag" shipbuilding yards. Factory buildings. Searchlight battery. Railway junction near Bremen. (2676/2683)
	3/4.1.41	Dockyard. Naval base. Shipbuilding yards, factories, railways and goods yards. (2688/2690)
BREMERHAVEN		
	21.7.40	Jetty. (1178)
	11/12.9.40	Docks and ships. (1702)
	23/24.9.40	Shipyards and docks. (1806)
	11/12.10.40	Docks. (1977)
	24/25.10.40	Docks and shipping. (2085)
	5/6.11.40	Seebeck shipbuilding yards and Columbus Bauhafen. (2185/2190)
	13/14.11.40	Docks. (2256/2259)
	19/20.11.40	,, (2315/2318)
	15/16.1.41	,, (2797/2798)
BRUNSBÜTTEL		
	4.9.39	Naval base. (12)
	19.6.40	,, ,, (926)
	6.7.40	,, ,, (1049)
	23/24.10.40	Factory. (2077)
BRUNSWICK		
	21.8.40	Anti-aircraft guns. (1461)
BUER		
	1/2.11.40	Aerodrome and Hydrierwerke Scholven plant. (2157/2161)
	17/18.11.40	Synthetic-oil plant, aerodrome. (2297/2301)
CELLE		
	3/4.9.40	Aerodrome. (1613)
	9/10.9.40	Aerodrome and railway junction. (1677)
	26/27.10.40	Main line station. (2101/2102)
COBLENZ		
	24.5.40	Communications. (754)
	18.6.40	Various objectives. (908)
	23.8.40	Railway junction. (1470)
	11/12.9.40	Key rail centres and goods yards. (1702/1704)
	19/20.9.40	Main railway lines. (1777)
	29/30.9.40	Railways. (1867)
	1/2.10.40	Goods yard and rail centre. (1881/1882)
	9/10.10.40	Goods yards and rail communications. (1962)
	23/24.10.40	Goods yards. (2077)
	28/29.10.40	Railway yards. (2117/2118)
	28/29.11.40	Sidings and goods yards, aerodrome. (2391/2393)
COLOGNE		
	20.5.40	Railway junctions. (720)
	24.5.40	Communications. (754)
	4.6.40	Railway yard. (839)
	12.6.40	Various objectives. (883)
	15.6.40	Marshalling yard. (898)
	18.6.40	Goods yards. (908)
	19.6.40	Munition works. (913)
	26.6.40	Chemical works. (959)
	27.6.40	Oil plant. (966)
	29.6.40	Blast furnace east of Cologne (978)
	30.6.40	Various objectives. (981)
	2.7.40	Aerodrome. (991)
	5.7.40	Communications. (1030)
	6.7.40	Railway junction. (1043)
	11.7.40	Munitions works near Cologne. (1105)
	31.7.40	Aluminium factory. (1263)
	3.8.40	Goods yard. (1286)
	9.8.40	Supply depot. (1322)
	10.8.40	Munition factory. (1331)
	11.8.40	Explosives factory. (1337)
	11.8.40	Power station (another raid). (1338)

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AREA	DATE OF ATTACK	OBJECTIVES BOMBED
COLOGNE (*continued.*)		
	13.8.40	Blast furnace north-east of Cologne. (*1375*)
	15.8.40	Railway sidings and power station. (*1388*)
	26.8.40	Supply depot. (*1500*)
	27.8.40	Various objectives. (*1512*)
	11/12.9.40	Rail centres and bridge, goods yards. (*1702/1704*)
	28/29.9.40	Goods yard. (*1858*)
	29/30.9.40	Goods junctions. (*1867*)
	1/2.10.40	Oil plant, power station, railway yards. (*1881/1882/1888*)
	2/3.10.40	Goods yards. (*1893/1896*)
	5/6.10.40	,, ,, (*1917*)
	7/8.10.40	Communications. (*1943*)
	9/10.10.40	Oil plant and munitions factory, railway communications and goods yards. (*1959/1962*)
	12/13.10.40	Oil plant and goods yards. (*1986/1990*)
	12/13.10.40	Hangelar aerodrome. (*1990*)
	15/16.10.40	Various objectives. (*2009/2012*)
	20/21.10.40	Aluminium works. (*2048*)
	27/28.10.40	Industrial plant. (*2112*)
	28/29.10.40	Oil plant and goods yards. (*2117/2118*)
	29/30.10.40	Goods yards. (*2130*)
	6/7.11.40	Railway yards and junction near Cologne. (*2193/2195*)
	8/9.11.40	Goods yards. (*2219*)
	12/13.11.40	Oil plant. Railway centre and factory near Cologne. (*2249*)
	13/14.11.40	Electric power station, oil plant, railway. (*2256/2259*)
	16.11.40	Oil plant. (*2285*)
	23/24.11.40	Canal and wharves. (*2349/2350/2352*)
	26/27.11.40	Armament works, electric power plants, goods yards and railway stations, docks and warehouses. (*2379/2380*)
	27/28.11.40	Railways, goods yards and railway stations, docks, wharves, power station, Humboldt-Deutz works. (*2386/2387*)
	29/30.11.40	Docks and wharves. (*2397/2398*)
	19/20.12.40	Power station and railway junction near Cologne. (*2564/2567*)
	21/22.12.40	Military store near Cologne. (*2586/2587*)
	22/23.12.40	Inland docks. (*2593/2597*)
	31.12.40	Factory. (*2665/2667*)
CUXHAVEN		
	6.7.40	Docks. (*1043*)
	9/10.9.40	Aerodrome. (*1677*)
	23/24.9.40	Shipyards and docks. (*1806*)
	30/1.10.40	Docks. (*1875/1876/1878*)
	16/17.10.40	,, (*2018*)
	24/25.10.40	Docks and shipping. (*2085*)
	25/26.10.40	Docks and aerodrome. (*2091/2092*)
	26/27.10.40	Naval docks and railway junction. (*2101/2102*)
	28/29.10.40	Docks. (*2117/2118*)
	6.11.40	Harbour and shipping. (*2193/2194*)
	28/29.11.40	Shipping and docks. (*2391/2393*)
DANZIG		
	10/11.11.40	Railway junctions. (*2232/2235*)
DARMSTADT		
	1.7.40	Various objectives. (*986*)
	25.8.40	Aerodrome. (*1488/1489*)
DEICHSHAUSEN		
	25.6.40	Aerodrome buildings and aircraft works. (*951*)
	28.6.40	Aircraft factory. (*970*)
	2.7.40	Aircraft factory and aerodrome. (*991*)
	6.7.40	Aircraft factory. (*1043*)
	14.7.40	Airfram factory. (*1123/1124*

AREA	DATE OF ATTACK	OBJECTIVES BOMBED
DELMENHORST		
	7.6.40	Oil storage plant near Delmenhorst. (*852*)
	23/24.9.40	Aerodrome. (*1806*)
DESSAU		
	14.8.40	Junkers factory. (*1375*)
	29.8.40	,, ,, (*1531/1532/1534*)
	29/30.9.40	Aerodrome. (*1867*)
	10/11.11.40	Railway junction. (*2232/2235*)
DIEPHOLZ		
	15.7.40	Aircraft stores. (*1130/1131*)
	19.7.40	Aircraft factory and aerodrome. (*1158/1161*)
	23.7.40	Aerodrome. (*1196*)
	13.8.40	Aircraft park. (*1362*)
	20.8.40	Aerodrome. (*1443*)
	9/10.9.40	,, (*1677*)
	6.10.40	,, (*1923/1924*)
	24/25.10.40	,, (*2085*)
DISTELRATH		
	10.6.40	Railway centre. (*873*)
DOLLBERGEN		
	18.6.40	Oil storage. (*908*)
DORMAGEN		
	29.6.40	Chemical factory. (*978*)
DORSTEN		
	26.6.40	Railway siding. (*959*)
	27/28.10.40	Railway station. (*2112*)
DORTMUND		
	25.5.40	Aerodrome north-east of Dortmund. (*768*)
	27.5.40	Various objectives. (*787*)
	4.6.40	Oil stocks and rail communications. (*839*)
	25.6.40	Oil depots and marshalling yard. (*951*)
	27.6.40	Aerodrome. (*966*)
	30.6.40	,, (*987*)
	3.7.40	Various objectives. (*1001*)
	16.7.40	Munition factory. (*1132*)
	26.7.40	Oil supplies. (*1223/1224*)
	27.7.40	Power station. (*1235*)
	2.8.40	Aerodrome. (*1276*)
	12.8.40	Oil plant. (*1345/1348*)
	13.8.40	Aerodrome. (*1362*)
	29.8.40	Oil plant. (*1531*)
	18/19.10.40	Factory, railways. (*2034*)
	26/27.10.40	Railway communications. (*2101/2102*)
	13/14.11.40	Industrial objectives and river port. (*2256/2259*)
	22/23.11.40	Goods yards, oil storage tanks. (*2343/2344*)
	23/24.11.40	Railway goods yards, oil installations. (*2349/2352*)
	4/5.12.40	Railway goods yards. (*2445/2446*)
DORTMUND-EMS CANAL		
	25.6.40	Lock gates and barges. (*951*)
	28.6.40	Lock gates. (*970*)
	29.6.40	Traffic, barges, etc. (*978/981*)
	4.7.40	Various objectives. (*1030*)
	24.7.40	Bridges. (*1205*)
	26.7.40	Various objectives. (*1223/1224*)
	20.8.40	Traffic. (*1443*)
	2/3.9.40	Various objectives. (*1598*)
	19/20.9.40	Aqueducts. (*1775/1777*)
	20/21.9.40	,, (*1782/1785*)
	26/27.9.40	New aqueduct and lock gates. (*1837*)
	12/13.10.40	Old aqueduct. (*1986/1990*)
	20/21.10.40	Barge fleets near Münster. (*2049*)
	7/8.11.40	Docks. (*2202/2205*)
	16.11.40	Various objectives. (*2285*)
DRESDEN		
	22.9.40	Railway, sidings and goods train. (*1796*)

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Inside a bomber. An unusual view of the nose of a "Whitley" heavy bomber as it takes off for a night raid. On the right is the Captain of the aircraft seated at the controls. On the left is the Second Pilot. In the background, the navigator can be seen at work.

Over the target. This shows one method of bomb-aiming, with the bomb-aimer lying prone with his thumb on the electrically-controlled bomb release. The bomb sight he is using compensates for the factors of wind speed, direction, drift, aircraft speed and alteration of course.

Back at the base, its mission accomplished, a bomber crew reports and "interrogation" begins. The crew of each aircraft is interviewed separately as soon as possible after landing. Reports of each member of the crew are checked and cross-checked to ensure utmost accuracy. In many cases night photographs taken during the raid are available to make assurance doubly sure. Hours of patient checking of evidence supports each official British air communiqué.

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AREA	DATE OF ATTACK	OBJECTIVES BOMBED
DRESDEN (*continued*)		
	10/11.11.40	Factory, railway junctions, gas, water and electricity installations. (*2232/2235*)
DUISBURG		
	27.5.40	Various objectives. (*787*)
	18.6.40	Various objectives and railway junction. (*908*)
	28.6.40	Docks near Duisburg. (*970*)
	2.7.40	Important objectives near Duisburg. (*991*)
	8.7.40	Canal basin, goods yards, railway junction and inland port at Duisburg-Ruhrort. (*1062*)
	26.7.40	Wharves. (*1223*)
	31.7.40	Aerodrome. (*1263*)
	10.8.40	Rail communications at Duisburg-Ruhrort. (*1326*)
	11.8.40	Wharves. (*1338*)
	14.8.40	Railway junction between Duisburg and Krefeld. (*1375*)
	23.8.40	Railway junction at Duisburg-Ruhrort. (*1470*)
	23.8.40	Docks. (*1471*)
	27.8.40	Supply depot. (*1511*)
	30.8.40	Electric power station. (*1545*)
	10/11.9.40	Railway targets. (*1686*)
	20/21.9.40	Main line tracks at southern exit. (*1782*)
	1/2.10.40	Electric power station and rail centre. (*1881/1882/1888*)
	9/10.10.40	Aerodrome. (*1962*)
	13/14.10.40	Oil plant. (*1993/1997*)
	15/16.10.40	Docks. (*2009/2012*)
	18/19.10.40	Wharves and factory. (*2034/2036*)
	24/25.10.40	Goods yards and commercial docks. (*2081/2085*)
	26/27.10.40	Goods yards at Duisburg-Ruhrort (*2101/2102*)
	27/28.10.40	Inland port at Duisburg-Ruhrort. (*2112*)
	6/7.11.40	,, ,, ,, ,, (*2193/2195*)
	7/8.11.40	,, ,, ,, ,, (*2202/2205*)
	8/9.11.40	,, ,, ,, ,, (*2212/2219*)
	10/11.11.40	Docks. (*2232/2235*)
	12/13.11.40	Inland port at Duisburg-Ruhrort. (*2249*)
	13/14.11.40	Docks at Duisburg-Ruhrort. (*2256/2259*)
	17/18.11.40	Wharves, etc., at Duisburg-Ruhrort. (*2297/2301*)
	19/20.11.40	Docks at Duisburg-Ruhrort. (*2315/2318*)
	20/21.11.40	Inland port—shipping and warehouses at Duisburg-Ruhrort. (*2321/2324/2325*)
	22/23.11.40	Goods yards at Duisburg-Ruhrort (*2343/2344*)
	23/24.11.40	Inland port at Duisburg-Ruhrort. (*2349/2352*)
	19/20.12.40	,, ,, ,, ,, (*2564/2567*)
	9/10.1.41	Factory buildings at Duisburg-Ruhrort. (*2738/2743*)
DÜLMEN		
	1.7.40	Railway junction. (*986*)
DÜMMER		
	16.7.40	Supply train. (*1133*)
DÜREN		
	24/25.5.40	Motorised column attacked. Train wrecked west of Düren. (*768*)
	9.6.40	Marshalling yard. (*870*)
	15.6.40	,, ,, (*898*)
	20.6.40	Various objectives. (*926*)
DÜSSELDORF		
	27.5.40	Various objectives. (*787*)
DÜSSELDORF (*continued*)		
	4.6.40	Oil stocks and marshalling yard. (*839*)
	19.6.40	Railway yard. (*913/914*)
	12.8.40	Various objectives. (*1348*)
	16.8.40	Munitions factory. (*1400*)
	30.8.40	Aerodrome. (*1545*)
	27/28.9.40	Munitions factory. (*1854*)
	9/10.10.40	Rail communications and goods yards. (*1962*)
	15/16.10.40	Oil tanks in railway yards and other objectives. (*2009/2012*)
	20/21.10.40	Docks. (*2049*)
	21/22.10.40	Düsseldorf - Derendorf railway yards and goods yards and main line south-west of Düsseldorf. (*2053/2055*)
	6/7.11.40	Factories near Düsseldorf. (*2193/2195*)
	7/8.11.40	Steel works and blast furnace (*2202/2205*)
	13/14.11.40	Industrial targets and railway yards. (*2256/2259*)
	17/18.11.40	Aerodrome to the north of Düsseldorf. (*2297/2301*)
	28/29.11.40	Factory, gasworks, railway goods yards. (*2391/2393*)
	4/5.12.40	Railway yards in Derendorf district, Mannesmann Röhrenwerke armament works, quays and docks, coal-gas plants. (*2445/2446*)
	7/8.12.40	Press and Walzwerke blast furnaces and steelworks, inland port, gasworks. (*2465/2466/2471*)
	8/9.12.40	Press and Walzwerke blast furnaces and steelworks, factories, other industrial and military targets. (*2477/2478*)
	19/20.12.40	A.A. positions. (*2564*).
	9/10.1.41	Inland port. Factory buildings. (*2738/2743*)
	22/23.1.41	Industrial objectives in Düsseldorf area. (*2852/2853*).
EHRANG		
	6/7.9.40	Railway sidings. (*1646*)
	7/8.9.40	Rail depots. (*1663*)
	11/12.9.40	Key rail centres and goods yards. (*1701/1704*)
	12/13.9.40	Goods yards. (*1708/1710*)
	14/15.9.40	,, ,, (*1725*)
	17/18.9.40	Distribution centres. (*1759/1761*)
	18/19.9.40	,, ,, (*1770*)
	19/20.9.40	Railway yards. (*1777*)
	20/21.9.40	Communication centres and goods yards. (*1782/1785*)
	25/26.9.40	Rail communication centres. (*1824*)
	29/30.9.40	Railways. (*1867*)
	30/1.10.40	Goods yards and rail communications. (*1875/1876*)
	7/8.10.40	Railway centre and goods yards. (*1935/1943*)
ELBE ESTUARY		
	15.9.40	Oil tanker and supply ship. (*1739*)
EMDEN		
	5.7.40	Naval base. (*1030*)
	7.7.40	Armament depot. (*1049*)
	13.7.40	Naval base and petroleum sheds. (*1117*)
	14.7.40	Docks. (*1123*)
	19.7.40	Naval base. (*1158*)
	20.7.40	,, ,, (*1169*)
	21.7.40	Shipping. (*1179*)
	25.7.40	Docks. (*1212*)
	30.7.40	Barges. (*1259*)
	30.7.40	Naval base. (*1264*)
	3.8.40	Oil depot. (*1283*)
	22.8.40	A.A. batteries. (*1461*)
	30.8.40	Shipping. (*1562*)
	31.8.40	Docks and shipyards. (*1578*)

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AREA	DATE OF ATTACK	OBJECTIVES BOMBED
EMDEN (*continued*)		
	1/2.9.40	Shipping. (*1588*)
	5/6.9.40	Docks. (*1638*)
	7/8.9.40	,, (*1663*)
	8/9.9.40	Barge concentrations and shipping. (*1670*)
	12/13.9.40	Docks and petroleum sheds. (*1708*)
	14/15.10.40	Docks. (*2001/2004*)
	18/19.10.40	Commercial docks. (*2036*)
	20/21.10.40	Docks. (*2049*)
	23/24.10.40	Wharves, warehouses and docks. (*2072/2077*)
	28/29.10.40	Naval port, petrol storage area. (*2117/2118*)
	30/31.10.40	Naval base and railway junction near Emden. (*2136/2142*)
	5/6.11.40	Petroleum sheds. (*2185/2190*)
	10/11.11.40	Aerodrome near Emden. (*2235*)
	2/3.1.41	Oil targets. (*2676/2683*)
	8/9.1.41	Naval docks and shipbuilding yards. (*2729/2735*)
	15/16.1.41	Docks (*2797/2798*)
	16/17.1.41	,, (*2811/2818*)
EMMERICH		
	24.5.40	Communications. (*754*)
	4.6.40	Oil tanks. (*834*)
	20.6.40	Various objectives. (*926*)
	25.6.40	Railway junction nearby. (*951*)
	5.7.40	Oil refineries. (*1030*)
	1.8.40	,, ,, (*1270*)
	3.8.40	,, ,, (*1283*)
	16.8.40	Dock installations. (*1399*)
	12/13.9.40	Railway sidings. (*1708*)
	24/25.10.40	Rail junctions. (*2083/2085*)
	31.12.40	Bridge near Emmerich. (*2667*)
ERKELENZ		
	21/22.5.40	Supply train near Erkelenz bombed. (*738*)
ESCHWEGE		
	8.7.40	Aerodrome and aircraft on ground. (*1054*)
	19.7.40	Aerodrome. (*1158*)
	21.7.40	,, (*1178*)
	23.7.40	,, (*1196*)
	26.7.40	Aircraft factory. (*1223*)
ESCHWEILER		
	6.6.40	Marshalling yards. (*845*)
ESENS		
	8/9.1.41	Bridge over railway line south of Esens, and convoy of lorries. (*2735*)
ESSEN		
	5.6.40	Marshalling yards. (*839*)
	8.6.40	,, ,, (*870*)
	15.6.40	Marshalling yards and blast furnace. (*898*)
	18.6.40	Railway tracks and various objectives. (*908*)
	19.6.40	Targets near marshalling yards and junctions. (*928*)
	22.6.40	Krupp's works and junction. (*940*)
	19.7.40	Krupp's works. (*1161*)
	20.7.40	Railway sidings. (*1170*)
	23.7.40	Krupp's works. (*1196*)
	26.7.40	Railway yard. (*1223*)
	2.8.40	Krupp's works. (*1278*)
	16.8.40	,, ,, (*1399*)
	30.8.40	,, ,, (*1545*)
	7/8.9.40	,, ,, (*1663*)
	9/10.9.40	Blast furnace and railway sidings. (*1677*)
	12/13.9.40	Goods yards. (*1708*)
	2/3.10.40	Krupp's works. (*1893/1896*)
	5/6.10.40	,, ,, (*1917*)
	8/9.10.40	,, ,, (*1948/1952/1954*)
	9/10.10.40	,, ,, (*1959*)
	12/13.10.40	,, ,, (*1986*)
	13/14.10.40	,, ,, (*1993/1997*)
	20/21.10.40	,, ,, (*2048/2049*)
ESSEN (*continued*)		
	29/30.10.40	Krupp's works. (*2130*)
	1/2.11.40	Krupp's armament works and blast furnace. (*2157/2161*)
	7/8.10.40	Krupp's works. (*2204*)
	10/11.11.40	,, ,, (*2232/2235*)
	13/14.11.40	,, ,, (*2256/2259*)
	23/24.11.40	,, ,, (*2349/2350/2352*)
	3/4.12.40	Blast furnace plant. (*2436/2437*)
	19/20.12.40	Various objectives. (*2564/2567*)
	9/10.1.41	Various objectives. (*2738/2743*)
EUSKIRCHEN		
	22.5.40	Marshalling yard. (*738*)
	8/9.6.40	,, ,, (*870*)
	20.6.40	Various objectives. (*926*)
EYSTRUP		
	11.10.40	Aerodrome. (*1967/1971*)
FEHMARN ISLAND		
	21/22.7.40	Seaplane base. (*1188*)
FINKENHEERD		
	24/25.9.40	Electric power station. (*1815*)
FLENSBURG		
	2/3.10.40	Aerodrome. (*1896*)
FRANKFURT-ON-MAIN		
	4.6.40	Various objectives and oil storage depot. (*830*)
	5.6.40	Oil storage. (*839*)
	19.6.40	Objectives near Frankfurt. (*913*)
	8.7.40	Various objectives. (*1062*)
	11.8.40	Blast furnace, oil depot and chemical factory. (*1338*)
	14.8.40	Factories. (*1375*)
	16/17.8.40	Airframe factory. (*1414*)
	22/23.8.40	Aircraft factory. (*1470*)
	25.8.40	Oil storage. (*1488*)
	27.8.40	Oil storage and aircraft factory. (*1512*)
	2/3.9.40	Oil installations. (*1598*)
	11/12.9.40	Explosives factory. (*1704*)
	28/29.9.40	Oil storage plant. (*1858*)
	8/9.11.40	Oil storage. (*2212/2219*)
	15/16.12.40	Inland port. (*2532/2534*)
	22/23.12.40	Oil stocks and works. (*2593/2597*)
	29/30.12.40	Objective near Frankfurt. (*2648*)
FRANKFURT-ON-ODER		
	23/24.10.40	Railway yards. (*2077*)
FREIBURG		
	19.8.40	Aerodrome. (*1432*)
FÜRSTENAU		
	22.6.40	Goods train. (*940*)
GELDERN		
	11.5.40	Railway and road junction. (*664*)
	23.5.40	Two supply trains. (*768*)
	6.6.40	Fires on railway. (*845*)
	13/14.11.40	Industrial objectives. (*2259*)
	8/9.12.40	Supply train near Geldern. (*2477/2478*)
GELSENKIRCHEN		
	22.5.40	Railway track. (*738*)
	18.6.40	Various objectives and oil storage. (*908*)
	27.6.40	Oil plant. (*966*)
	14.7.40	Supply factories. (*1123*)
	15.7.40	Oil plants. (*1130*)
	18.7.40	Oil installations. (*1150*)
	20.7.40	Oil plant. (*1169*)
	21.7.40	,, ,, (*1178*)
	22.7.40	Oil storage and depot. (*1188*)
	23.7.40	Oil plant. (*1196*)
	24.7.40	Oil depot. (*1205*)
	26.7.40	Oil storage. (*1224*)
	1.8.40	Oil plants. (*1278*)
	4.8.40	Oil plant. (*1287*)
	12.8.40	Gelsenberg Benzin A.G. oil plant. (*1348*)
	16.8.40	Oil plant. (*1399*)

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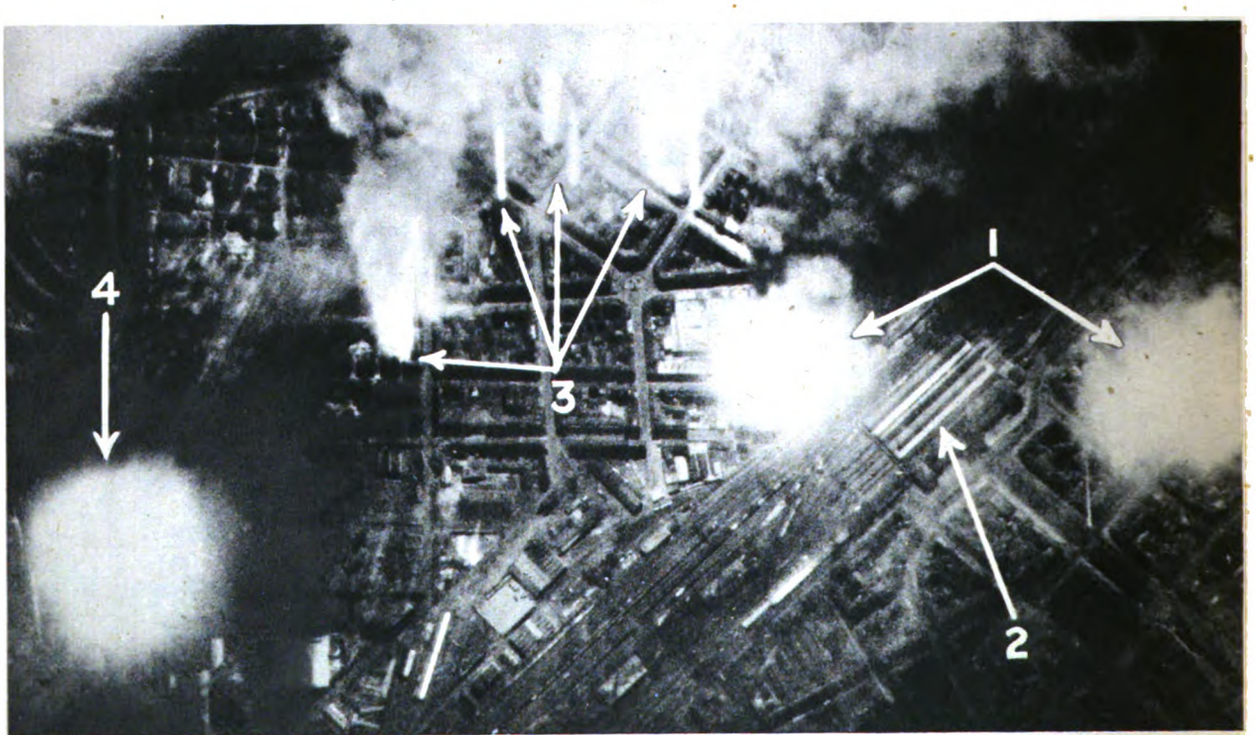
HAMM. This illustration of the great railway centre of the industrial area of the Ruhr, as photographed during one of the earlier raids, goes far towards explaining why it has been so constantly attacked by British bombers. The marshalling yards are the largest on the continent of Europe and cover an area four miles long by nearly three-quarters of a mile wide. The vast network of tracks and sidings is vital to the handling of supplies from every corner of the industrial Ruhr where a huge percentage of Germany's war factories are located. It is estimated that



MANNHEIM. A night picture showing a direct hit on an armaments factory, taken during a recent raid on Mannheim's industrial and railway centre by successive waves of British bombers. Key: (1) Fires burning fiercely north and south of (2) the central railway station. (3) More fires in the Lindenhof district. (4) The Heinrich Lanz works ablaze.

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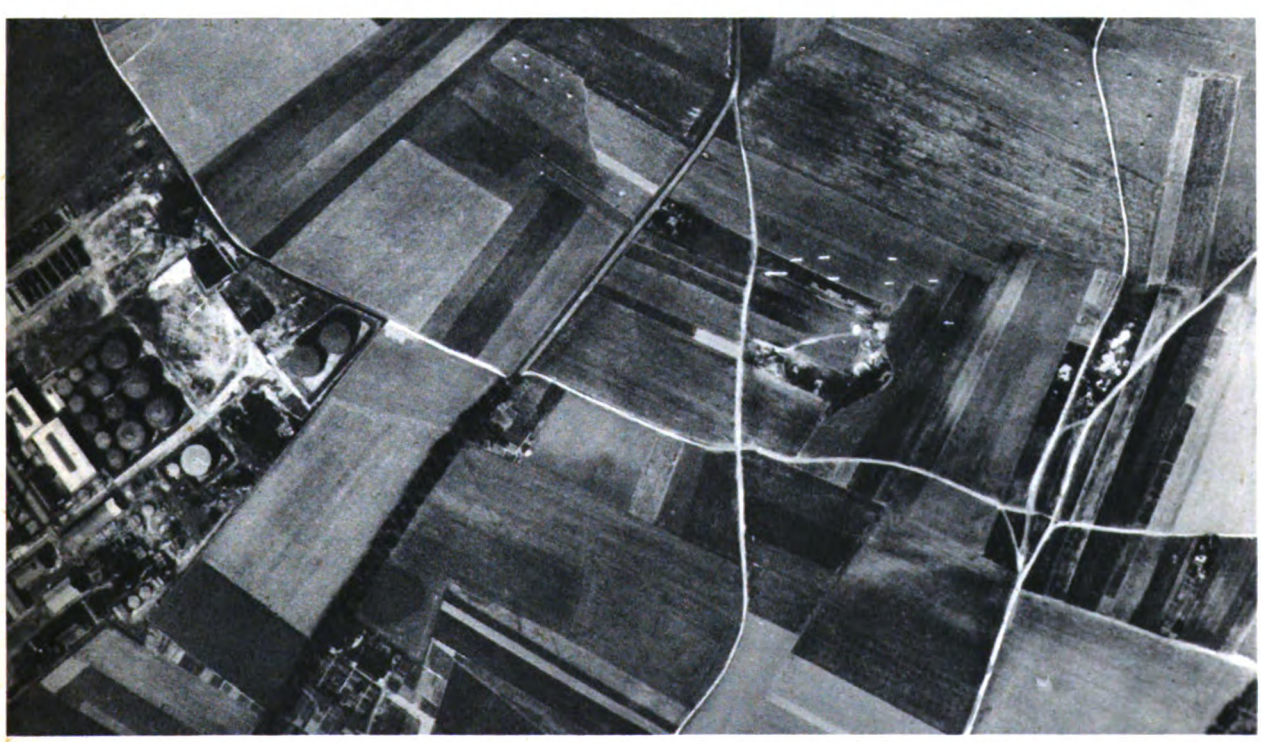
Hamm was capable of handling 10,000 goods trucks every twenty-four hours. This photograph is taken from a height of only 4,000 feet. Notice particularly the salvo of three bombs on the right of the picture. Hamm has been successfully attacked in bombing raids on over 80 occasions, and it requires little imagination to visualise the effects of the tons of high explosive and incendiary bombs that have been unloaded on the yard since the above photograph was taken in the course of a daylight attack.



MONHEIM. A photograph taken during a daylight raid showing clearly a stick of ten bombs falling towards the massed storage tanks on the left, filled with thousands of gallons of mineral oil. Monheim is one of the greatest centres for oil storage works, oil refineries and gasworks producing by-products for the manufacture of synthetic oil.

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AREA	DATE OF ATTACK	OBJECTIVES BOMBED
GELSENKIRCHEN (*continued*)		
	30.8.40	Hydrierwerke Scholven oil plant. (*1545*)
	31.8.40	Oil supply depot. (*1562*)
	7/8.9.40	Oil plant. (*1661*)
	1/2.10.40	,, ,, (*1881/1882*)
	5/6.10.40	,, ,, (*1917*)
	8/9.10.40	Oil plants and power station. (*1948/1952*)
	10/11.10.40	Oil plant and railways. (*1967/1971*)
	13/14.10.40	Oil plant. (*1993*)
	15/16.10.40	,, ,, (*2009*)
	20/21.10.40	Oil plants. (*2048/2049*)
	24/25.10.40	Oil plant. (*2083/2085*)
	27/28.10.40	Oil supply centre. (*2108/2112*)
	29/30.10.40	Oil plant, storage plant and industrial plant. (*2130*)
	1/2.11.40	Braunkohlen Benzin works. Factory near Gelsenkirchen. (*2157/2161*)
	7/8.11.40	Oil plant. (*2205*)
	8/9.11.40	Hydrierwerke Scholven plant and branch of Braunkohlen Benzin Combine. (*2212/2219*)
	10/11.11.40	Oil plant. (*2232/2235*)
	11/12.11.40	,, ,, (*2249*)
	13/14.11.40	Two oil plants. (*2256/2259*)
	17/18.11.40	Oil plants, railway stations and junctions, railway yards. (*2297/2301*)
	19/20.11.40	Oil plant. (*2315/2318*)
	22/23.11.40	Railway. (*2343/2344*)
	19/20.12.40	Synthetic-oil plants. (*2564/2567*)
	21/22.12.40	,, ,, ,, (*2586/2587*)
	9/10.1.41	Synthetic-oil plant. (*2738/2743*)
GESEKE		
	20.8.40	Railway junction. (*1443*)
GIFHORN		
	24.9.40	Aerodrome. (*1806*)
	29/30.9.40	,, (*1867*)
GOCH		
	11.5.40	Railway and road junction. (*664*)
GOTHA		
	24.7.40	Aircraft factory. (*1205*)
	26.7.40	Messerschmitt assembly factory. (*1223*)
	13.8.40	Gotha airframe factory. (*1360*)
GÖTTINGEN		
	22.6.40	Aircraft factory and storage depot. (*940*)
	22.7.40	Aircraft stores. (*1188*)
	14/15.10.40	Road and rail junction in suburb west of Göttingen. (*2001/2004*)
GREMBURG		
	30.6.40	Marshalling yard. (*981*)
	8.7.40	Goods yard. (*1062*)
	1/2.10.40	Goods yard and rail centre. (*1881/1882/1888*)
	2/3.10.40	Railway yards. (*1893/1896*)
	7/8.10.40	Goods yards and communications. (*1935/1943*)
	8/9.10.40	Goods yard. (*1948/1952*)
	9/10.10.40	Railway communications and goods yard. (*1962*)
	22/23.12.40	Goods yards. (*2593/2597*)
GREVENBROICH		
	14.7.40	Supply factories (metal works). (*1123*)
	14.8.40	Factory. (*1375*)
	9/10.10.40	Aluminium works. (*1959*)
	15/16.10.40	Various objectives. (*2009/2012*)
	20/21.10.40	Aluminium works. (*2048/2049*)
GRIESHEIM		
	23.8.40	Explosives factory and chemical works. (*1470*)
	27.8.40	Explosives factory. (*1512*)
GROSS-KORBETHA		
	10/11.10.40	Railway yard. (*1971*)
HAGE		
	20.7.40	Aerodrome. (*1170*)
	24/25.9.40	Aerodrome—hangar—runway. (*1815*)
HALBERSTADT		
	24.7.40	Aerodrome. (*1205*)
HALLE		
	12/13.10.40	Aerodrome. (*1990*)
	15/16.10.40	Railway junction. (*2009*)
	6/7.11.40	Railway yards and junctions. (*2193/2195*)
HALTERN		
	1.7.40	Ammunition dump north-west of Haltern. (*987*)
	25/26.9.40	Canal and dock gates. (*1824*)
	24/25.10.40	Goods yards. (*2083/2085*)
HAMBORN		
	20.6.40	Various objectives. (*926*)
	16.7.40	Blast furnaces. (*1132*)
	7.8.40	A.A. batteries west of Hamborn. (*1304*)
	19/20.11.40	Electric power station (August Thyssen-Hütte group) (*2315/2318*)
HAMBURG		
	18.5.40	Storage tanks. (*706*)
	28.5.40	Various objectives. (*787*)
	6.6.40	Storage tanks. (*845*)
	7.6.40	Storage plant nearby. (*852*)
	18.6.40	Various objectives and oil storage. (*908*)
	19.6.40	Targets near Hamburg. (*913*)
	20.6.40	Various objectives. (*926*)
	22.6.40	Aerodrome to the north of Hamburg. (*940*)
	1.7.40	Oil storage. (*986*)
	3.7.40	Various objectives. (*1001*)
	4.7.40	Railway junction. (*1017*)
	5.7.40	Communications, docks and oil tanks. (*1030*)
	6.7.40	Docks. (*1043*)
	14.7.40	Docks and oil refineries. (*1123*)
	15.7.40	Oil refineries and supply factories. (*1130*)
	21.7.40	Oil refineries and aircraft factories. (*1178*)
	23.7.40	Oil refinery. (*1196*)
	24.7.40	Oil depot. (*1205*)
	25.7.40	Docks. (*1212*)
	26.7.40	,, (*1223*)
	28.7.40	Oil depots. (*1242*)
	30.7.40	Barges and vessels. (*1259*)
	2.8.40	Oil depot. (*1283*)
	6.8.40	Various objectives. (*1299*)
	8/9.8.40	,, ,, (*1322*)
	10.8.40	Docks. (*1337*)
	11.8.40	,, (*1338*)
	30.8.40	Warehouses and dockside. (*1563*)
	5/6.9.40	Mineral oil installation. (*1635*)
	8/9.9.40	Docks, barges and shipping. (*1667*)
	9/10.9.40	Dockyards, etc. (*1677*)
	11/12.9.40	Docks and shipbuilding yards. (*1702*)
	14/15.9.40	Barges, dockyards and goods yards. (*1739*)
	17/18.9.40	Port and shipping. (*1759*)
	23/24.9.40	Shipyards, docks and railway. (*1802*)
	24/25.9.40	Port and docks. (*1815*)
	28/29.9.40	Rail junction. (*1858*)
	2/3.10.40	Docks, oil factory and storage plant. (*1893/1896*)
	8/9.10.40	Oil refineries. (*1948/1952/1954*)
	10/11.10.40	Rhenania Ossag oil refinery in Grasbrook area. (*1971*)
	11/12.10.40	Oil refinery. (*1977/1981*)
	13/14.10.40	Blohm and Voss shipbuilding yards. (*1993/1997*)
	14/15.10.40	Docks. (*2001/2004*)

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AREA	DATE OF ATTACK	OBJECTIVES BOMBED
HAMBURG (*continued*)		
	15/16.10.40	Naval base. (*2009*)
	16/17.10.40	Docks. (*2018/2019*)
	18/19.10.40	Blohm & Voss shipyards. (*2034*)
	20/21.10.40	,, ,, ,, (*2048/2049*)
	21/22.10.40	,, ,, ,, (*2053/2055*)
	24/25.10.40	Blohm & Voss shipyards, oil storage plant, power station. (*2083/2085*)
	25/26.10.40	Neuhof power station. Dock buildings and A.A. batteries. (*2091/2092*)
	26/27.10.40	Naval docks. (*2101/2102*)
	27/28.10.40	Oil refineries and docks. (*2108/2112*)
	28/29.10.40	Blohm & Voss shipyards, oil refinery and oil supply centre. (*2117/2118*)
	29/30.10.40	Docks and goods yards. (*2130*)
	5/6.11.40	Neuhof power station. (*2185/2190*)
	14/15.11.40	Wilhelmsburg oil refinery. (*2270/2271*)
	15/16.11.40	Railway communications in Billwärder and Moorfleth districts. Blohm and Voss shipbuilding yards. Docks. Rhenania Ossag oil refinery. Gasworks at Barmbeck. (*2279/2280*)
	16/17.11.40	Railway goods yards and industrial targets in Billwärder and Moorfleth districts, Blohm and Voss shipyards, factory, Rhenania Ossag mineral oil refinery, railway goods yards, Schlink edible oil and fats factory, other industrial objectives, supply ships. (*2285/2288/2291*)
	19/20.11.40	Blohm and Voss shipyards, Rhenania Ossag oil refinery. (*2315/2318*)
	24/25.11.40	Blohm and Voss shipyards, Rhenania Ossag oil refinery in Grasbrook area. (*2359/2363*)
	25/26.11.40	Docks. (*2368/2370*)
	4/5.1.41	Various objectives. (*2693*)
HAMM		
	2.6.40	Marshalling yard. (*816*)
(On many occasions, more than one raid has been made in a 24-hour period. Total of 82 raids to the 1st Feb., 1941.)	3.6.40	Bridge over canal and railway tracks. (*826*)
	18.6.40	Marshalling yard. (*908*)
	20.6.40	Various targets. (*926*)
	26.6.40	Railway junction, marshalling yard and trains. (*959*)
	27.6.40	Marshalling yard and railway junction. (*966*)
	28.6.40	Marshalling yard. (*978*)
	29.6.40	,, ,, (*981*)
	1.7.40	,, ,, (*986*)
	2.7.40	Viaduct. (*991*)
	5.7.40	Lines of communication. (*1030*)
	8.7.40	Goods yards. (*1062*)
	9.7.40	,, ,, (*1074*)
	14.7.40	,, ,, (*1123/1124*)
	15.7.40	,, ,, (*1130/1131*)
	19.7.40	Railway junction and sidings. (*1158/1161*)
	22.7.40	Railway sidings. (*1188/1191*)
	24.7.40	Main line junction between Hamm and Soest. Also sidings at Hamm. (*1206*)
	26.7.40	Railway sidings. (*1223/1224*)
	28.7.40	Railway yards. (*1234/1235*)
	1.8.40	Railway sidings. (*1278*)
	5.8.40	Goods yards. (*1299*)
	8.8.40	Store depots. (*1312*)
	9.8.40	Supply depots. (*1322*)
	10/11.8.40	Railway sidings and supply depots. (*1337/1338*)
	22.8.40	Railway junction. (*1470/1471*)
	26.8.40	Supply depots. (*1500*)
	27.8.40	,, ,, (*1511*)
	29.8.40	Goods yard. (*1545/1546*)
	31.8.40	,, ,, (*1562*)
	31/1.9.40	,, ,, (*1580*)
HAMM (*continued*)		
	3/4.9.40	Railway marshalling yards. (*1612/1613*)
	5/6.9.40	Communications. (*1638*)
	6/7.9.40	Railway sidings. (*1646*)
	7/8.9.40	Railway yard. (*1663*)
	11/12.9.40	Goods yard. (*1702*)
	12/13.9.40	,, ,, (*1708/1710*)
	14/15.9.40	Supply depot, goods yard, sidings, goods train on the Coesfeld-Dorsten line machine-gunned. (*1725/1729*)
	17/18.9.40	Railway yard. (*1759/1761*)
	20/21.9.40	Goods yards and sidings. (*1770/1771*)
	24/25.9.40	Rail depot and distributing centre. (*1815/1817*)
	25/26.9.40	Railway yard, etc. (*1824/1825*)
	27/28.9.40	Railway yards. (*1847/1848/1852/1854*)
	28/29.9.40	Yard—a building close to the tracks. (*1858*)
	29/30.9.40	Goods junction. (*1867*)
	1/2.10.40	Goods yard and rail centre. (*1881/1882/1888*)
	2/3.10.40	Railway junction near Hamm. (*1893*)
	2/3.10.40	Double railway track and goods yard south of Hamm. (*1896*)
	5/6.10.40	Goods yard. (*1917*)
	7/8.10.40	Railway centre and goods yards. (*1935/1943*)
	10/11.10.40	Railways and goods yards. (*1967/1971*)
	12/13.10.40	Goods yards and factories. (*1986/1990*)
	15/16.10.40	Goods yards. (*2009*)
	23/24.10.40	,, ,, (*2077*)
	24/25.10.40	,, ,, (*2085*)
	27/28.10.40	,, ,, (*2108/2112*)
	6/7.11.40	Railway yards. (*2195*)
	8/9.11.40	Goods yards. (*2212/2219*)
	17/18.11.40	,, ,, (*2297/2301*)
HANAU		
	28/29.9.40	Munition factory. (*1859*)
	8/9.10.40	Metal works. (*1948/1952/1954*)
HANDORF		
	27.6.40	Aerodrome. (*966*)
	23.7.40	,, (*1196*)
HANOVER		
	20.5.40	Oil storage tanks nearby. (*714*)
	19.6.40	Various objectives near Hanover. (*913*)
	22.6.40	Oil storage. (*940*)
	27.6.40	Two oil tanks. (*966*)
	5.7.40	Oil refineries. (*1030*)
	16.7.40	Oil refinery. (*1132*)
	18.7.40	Oil depot. (*1158*)
	14.8.40	Oil refinery. (*1375*)
	20.8.40	Oil storage. (*1444*)
	21.8.40	Deurag installation. (*1462*)
	22.8.40	Railway tunnel north of Hanover between Nienburg and Verden. (*1470*)
	31/1.9.40	Goods yard. (*1580*)
	1/2.9.40	Oil refinery. (*1588*)
	9/10.9.40	Railway junctions. (*1677*)
	23/24.9.40	Goods yards. (*1803*)
	24/25.9.40	Aerodromes. (*1815*)
	25/26.9.40	Railway yards. (*1824/1825*)
	28/29.9.40	Main line station. (*1858*)
	29/30.9.40	Factory near Hanover. (*1867*)
	29/30.9.40	Oil refinery. (*1869*)
	30/1.10.40	,, ,, (*1875/1876*)
	10/11.10.40	Oil refinery (Gewerkschaft Deutsche Erdöl). (*1967/1971*)
	12/13.10.40	Oil refineries. (*1986*)
	12/13.10.40	Autobahn bridge near Hanover. (*1990*)
	14/15.10.40	Gewerkschaft Deutsche Erdöl and railway sidings. (*2001/2004*)

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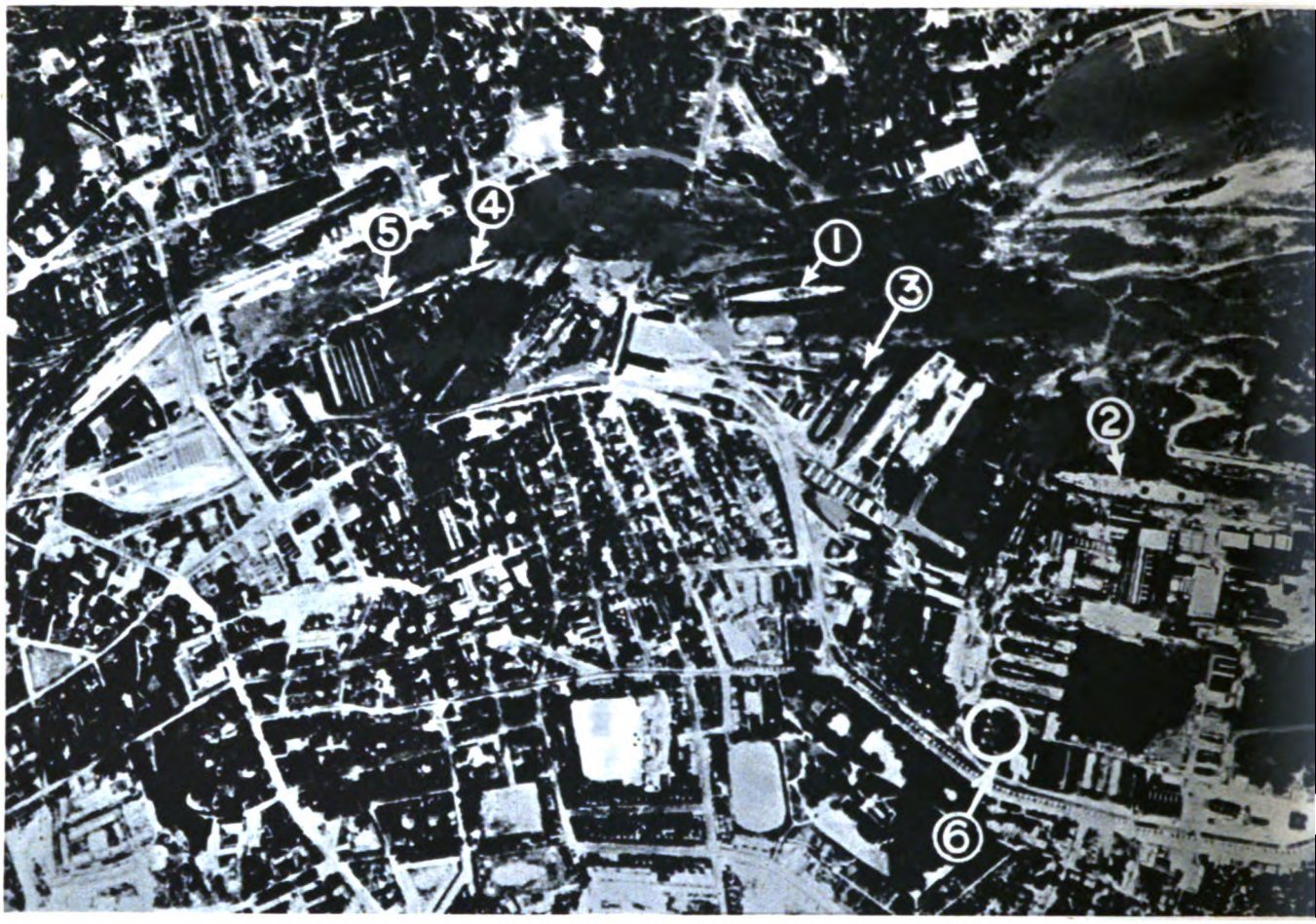
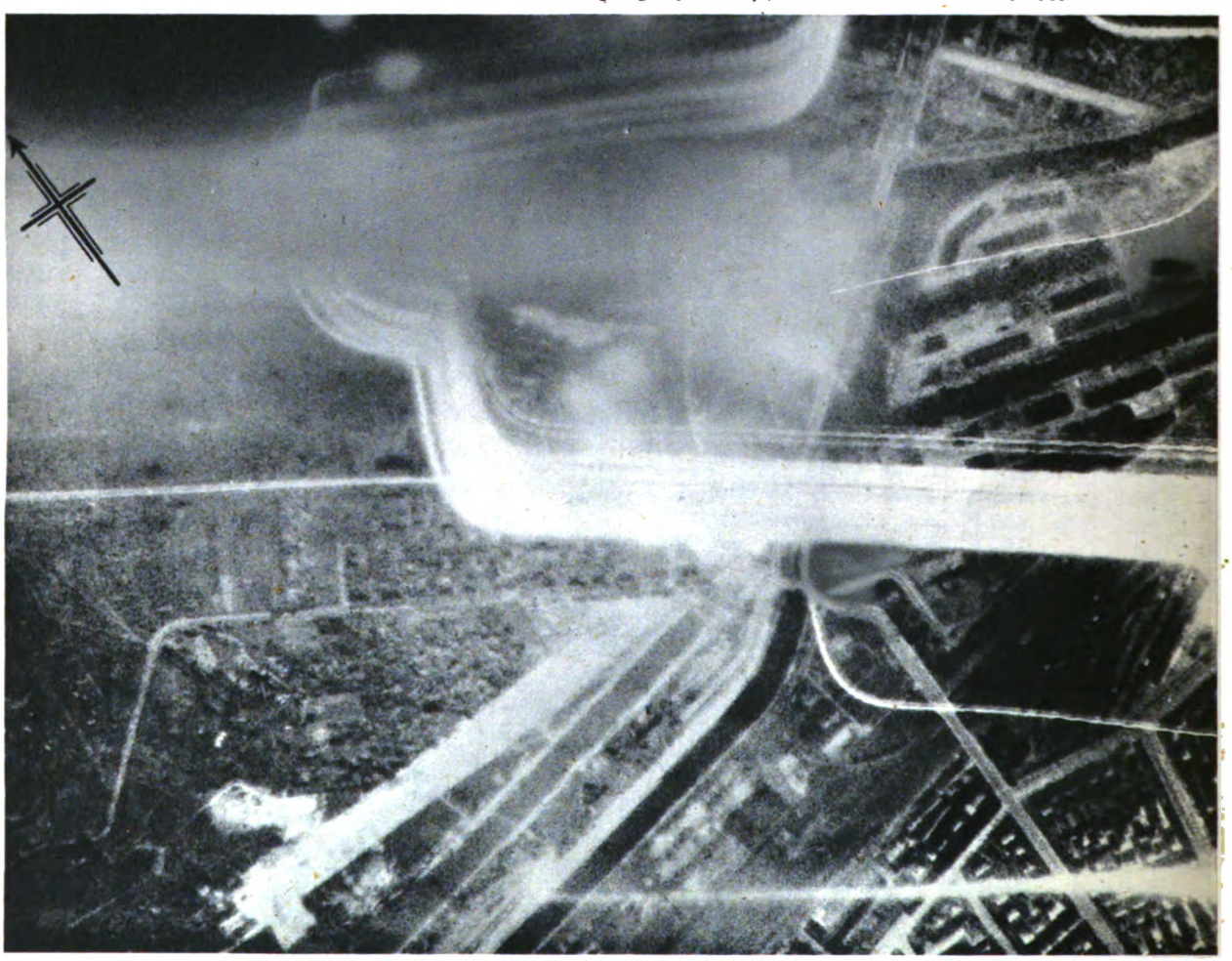


KIEL : Reconnaissance can help after a raid as well as before. This picture was taken by the R.A.F. after a raid on Kiel in the summer. Up to the end of December, 1940, the R.A.F. have carried out 32 bombing raids on Kiel. This photograph shows damage done to German shipping by previous naval action and by air attack. In the harbour and docks, four of Germany's most important battleships are lying crippled. (1) The 26,000-ton *Scharnhorst* in a floating dock, undergoing repairs. (2) The aircraft carrier *Graf Zeppelin* under construction.



BERLIN. A bombing attack on Berlin in progress. Taken from a night bomber engaged in a raid on Westhafen Docks, the second largest inland harbour in the Reich. Bombs are bursting on the inner harbour of the Spandau ship canal. The broad streaks of light are the effects of searchlights on the photographic plate ; the thin ones are anti-aircraft shells.

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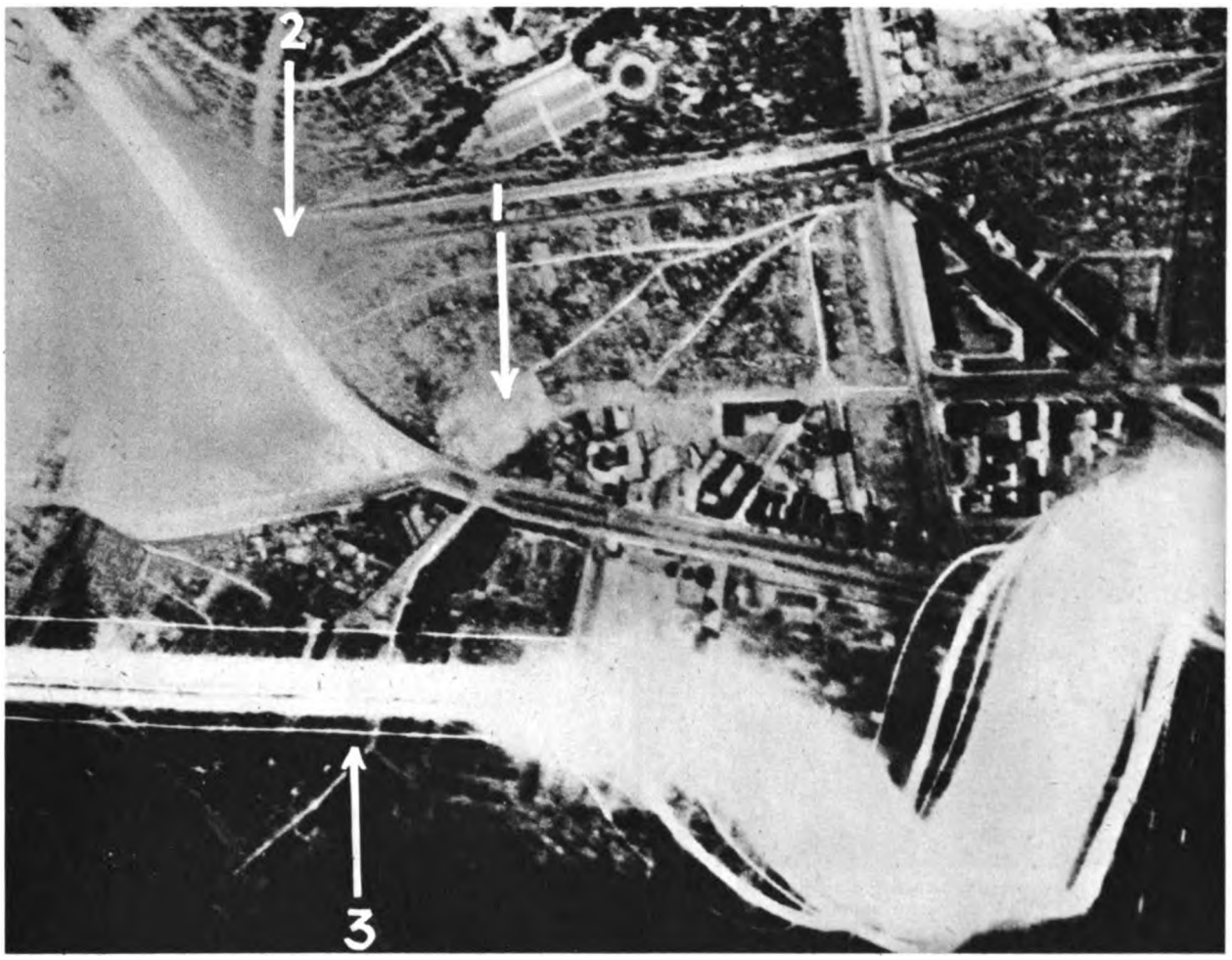
(3) The 10,000-ton Pocket Battleship *Lützow*, in dry dock with stern being repaired. (4) A 10,000-ton *Hipper* class cruiser in the Germania Yard. (5) A 6,000-ton *Köln* class cruiser. On shore the picture reveals (6) the Central Power Station of the Deutsche Werke Yard damaged by bombings. The water in the harbour is seen to be partially covered by oil from pipe-lines fractured by air attack. It will be seen from this photograph also how difficult it is for Germany to keep her ship-building secret or free from attack.



STETTIN. This photograph was taken in the early phase of a night bombing attack on Stettin, one of the farthermost points attacked, involving a round flight of over 1,500 miles. (1) The flash of a bomb falling in the centre of the target area. (2) Bomb bursting close to viaduct carrying Berliner Strasse over the railway. (3) Glare from incendiary fires.

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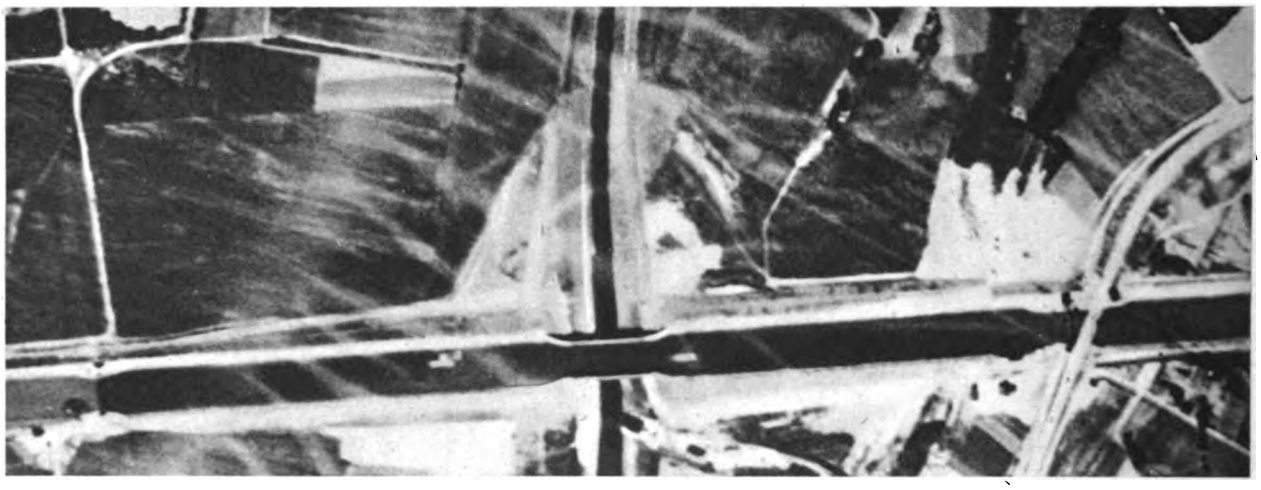
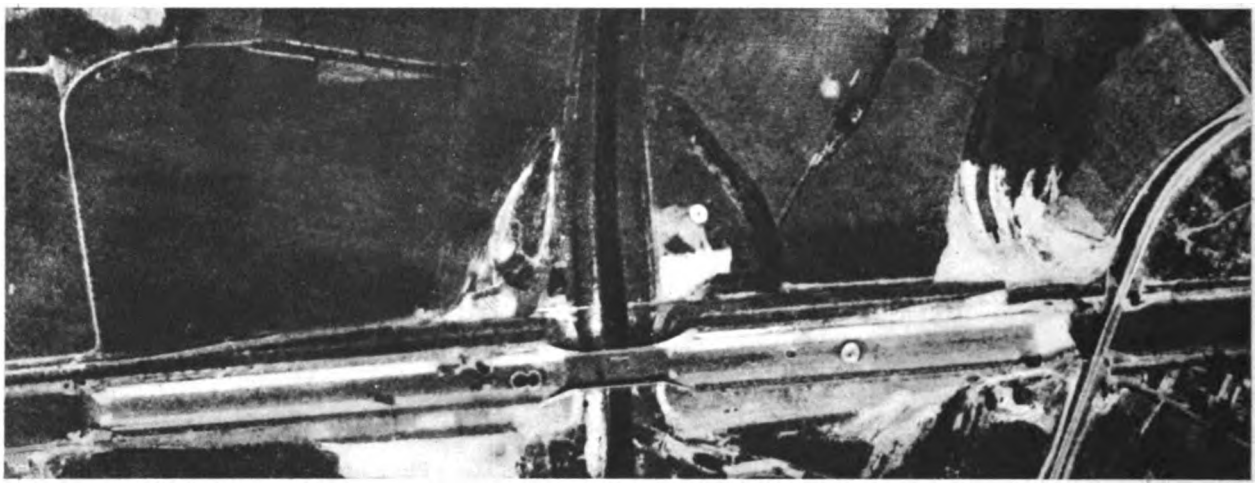
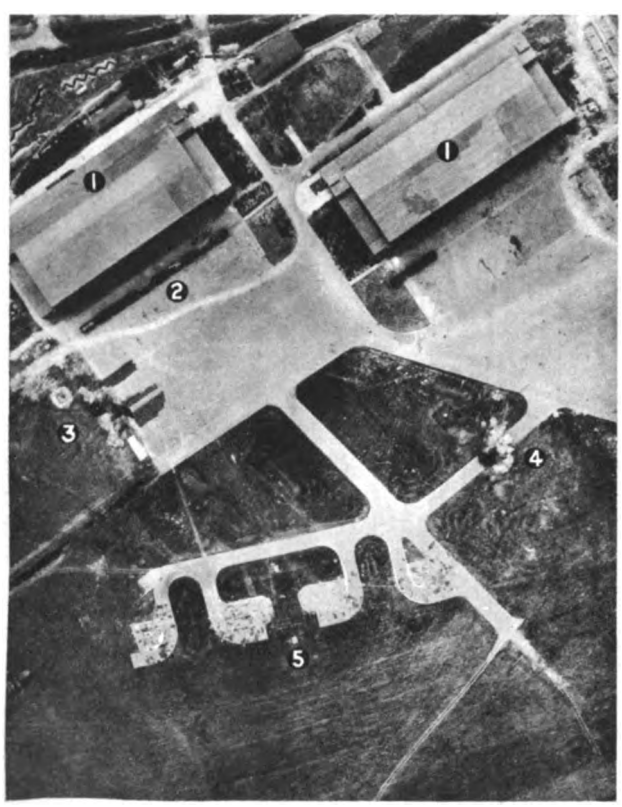
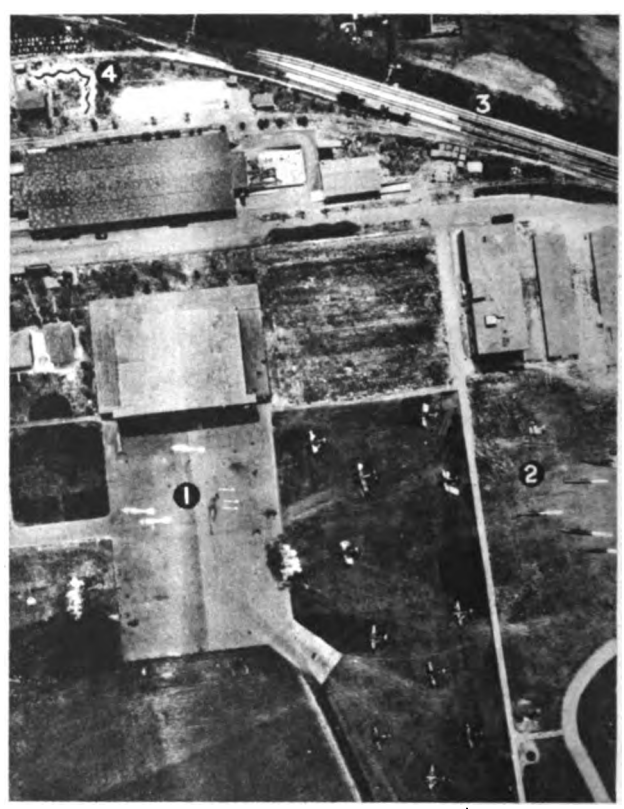




DORTMUND-EMS CANAL. These two photographs provide remarkable proof of the bombing accuracy of the R.A.F. The carrying-power of the German canals is an essential factor in Germany's war transport system. Here is the vital aqueduct of the Dortmund-Ems canal north of Münster in the heart of Germany's munition centre which used to carry the equivalent of 400 trainloads daily. In the top picture, taken on reconnaissance prior to the attack, barges can be seen on the canal. In the bottom picture the bed of the aqueduct is seen to be pitted with craters some 30 ft. wide, barges are stranded in the mud, and the canal has been rendered for some time useless for traffic.





ESCHWEGE. The two pictures above show low-level daylight attacks by R.A.F. bombers on an important military aerodrome at Eschwege, 30 miles east of Kassel and 300 miles inside enemy territory. On the left, a bursting bomb which has scored a direct hit on the concrete runway is clearly seen. Key: (1) Hangars. (2) Goods trucks. (3) Petrol drums. (4) Bursting bomb. (5) Refuelling point. The right-hand photograph shows another angle of the same aerodrome. Note the salvoes of bombs in flight in the centre of the picture and the flight of incendiaries just entering the picture at the extreme right-hand side. Aircraft are dispersed over the aerodrome. Key: (1) High explosive bombs falling. (2) Incendiary bombs falling. (3) Railway tracks. (4) Shelter trenches.

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AREA	DATE OF ATTACK	OBJECTIVES BOMBED
HANOVER (*continued*)		
	23/24.10.40	Oil refinery, goods yards near Hanover. (*2077*)
	24/25.10.40	Gewerkschaft Deutsche Erdöl (oil refinery). (*2083/2085*)
	25/26.10.40	Oil refineries and storage plant. (*2091/2092*)
	13/14.11.40	Gewerkschaft Deutsche Erdöl (oil refinery). (*2256/2259*)
	27.1.41	Industrial targets. (*2879*)
HARBURG		
	5.7.40	Aerodrome. (*1030*)
	3.8.40	Various objectives. (*1281*)
	12.9.40	Quays. (*1702*)
	24/25.11.40	Norddeutsche chemical factory. (*2359/2363*)
HATTINGEN		
	12.8.40	Electric power station. (*1345*)
HEERDT		
	28.6.40	Munitions factory. (*970*)
HEIDE		
	8.7.40	Aerodrome. (*1062*)
HEIDELBERG		
	8.7.40	Railway junctions. (*1063*)
HEILBRONN		
	16/17.12.40	Various objectives. (*2544*)
HELIGOLAND		
	6.6.40	Military objectives. (*845*)
	26.6.40	Ammunition dump. (*959*)
	25/26.11.40	Various objectives. (*2368/2370*)
HELIGOLAND BIGHT		
	29.9.39	German warships. (*46*)
	3.12.39	,, ,, (*201*)
	18.12.39	,, ,, (*250*)
	21.2.40	Bombs on warship. (*403A*)
	11.3.40	Attack on submarine at entrance to Schillig Roads. (*451*)
	17.3.40	Naval patrol vessels near Heligoland Bight. (*457*)
	6.6.40	Various objectives. (*845*)
HERDECKE		
	12.8.40	Dortmund electric power station, near Herdecke. (*1345*)
	29.8.40	Koepchenwerke power station. (*1532*)
HERRINGEN		
	13.8.40	Munitions factory. (*1362*)
	12/13.10.40	Aluminium works. (*1986*)
	23/24.10.40	,, ,, (*2077*)
HILDESHEIM		
	1.9.40	Railway junction. (*1578*)
	29/30.10.40	,, ,, (*2130*)
HITZACKER		
	21.6.40	Works. (*929*)
HÖCHST		
	29.6.40	Chemical factory. Heavy and light guns surrounding factory. (*978*)
	30.6.40	Chemical factory. (*981*)
	27.8.40	,, ,, (*1511*)
HOLTENAU		
	8.8.40	Aerodrome. (*1311*)
	19/20.11.40	Five locks bombed. (*2318*)
HOMBERG		
	18.6.40	Various objectives. Oil storage and tank. (*908*)
	2.7.40	Oil plant. (*991*)
	9.7.40	,, ,, (*1074*)
	31.7.40	,, ,, (*1263*)
	2.8.40	,, ,, (*1278*)
	7.8.40	,, ,, (*1304*)
	8.8.40	,, ,, (*1312*)
	11.8.40	,, ,, (*1337/1338*)
	10/11.9.40	,, ,, (*1686/1690*)
	9.10.40	,, ,, (*1957*)
	29/30 10.40	Oil plant and storage plant. (*2127/2130*)
	6/7.11.40	Synthetic-oil plant. (*2193/2195*)
HOMBURG		
	2.6.40	Goods yards. (*826*)
	5.6.40	Railway tracks. (*839/845*)
	10.6.40	Railway centres. (*873*)
	9.10.40	Railway sidings near Homburg. (*1959*)
	28/29.10.40	Industrial plant near Homburg and canal, concentration of 50–60 barges. (*2117/2118*)
HORNUM		
	19.3.40	Air base severely damaged. (*460A to E*)
	7.7.40	Seaplane base. (*1049*)
	8.7.40	Aerodrome. (*1062*)
	13.8.40	,, (*1362*)
HOYA		
	9/10.9.40	Aerodrome. (*1677*)
HUNTLOSEN		
	22.6.40	Aircraft. (*940*)
	1.7.40	Aerodrome. (*986*)
HÜSTEN		
	15.9.40	Rail communications. (*1729*)
HUSUM		
	4.8.40	Buildings and aerodrome. (*1286*)
	8.8.40	Aerodrome. (*1311*)
	11/12.9.40	,, (*1702*)
	5/6.10.40	,, (*1920*)
ICKERN		
	26.7.40	Blast furnace nearby. (*1223/1224*)
JAGEL		
	20.8.40	Aerodrome. (*1443*)
JENA		
	17.8.40	Carl Zeiss plant. (*1413*)
JEVER		
	21.7.40	Aerodrome. (*1178*)
JUIST		
	19.7.40	Aerodrome. (*1161*)
JÜLICH		
	25.5.40	Road. (*768*)
	14.9.40	Goods yard. (*1725*)
KAMEN		
	25.6.40	Various objectives. (*951*)
	20.7.40	Oil plant. (*1170*)
	21.7.40	Railway sidings. (*1178*)
	26.7.40	Oil supplies. (*1223/1224*)
	2.8.40	Oil plant. (*1278*)
	29/30.9.40	Factory. (*1867*)
KARLSRUHE		
	5/6.9.40	Aerodrome. (*1635/1638*)
KASSEL		
	22.6.40	Factories (Fieseler aircraft works) and aerodrome. (*940*)
	24.6.40	Aerodrome and aircraft works. (*951*)
	22.7.40	Fieseler aircraft factory. (*1188*)
	22.7.40	Aircraft factory and aerodrome. (*1205*)
	26.7.40	Aircraft factory. (*1223/1224*)
	1/2.9.40	Power station. (*1586/1588*)
	12/13.10.40	Aerodrome. (*1990*)
	25/26.10.40	Industrial targets near Kassel. (*2091/2092*)
KASTROP-RAUXEL		
	10.6.40	Petroleum plant near Kastrop-Rauxel. (*913*)
	26.7.40	Oil supplies. (*1223/1224*)
	12.8.40	Klockner Wintershall oil plant. (*1345*)
	23/24.11.40	Factory. (*2349/2350*)
KELSTERBACH		
	28.8.40	Transformer station. (*1518*)
KERKRADE		
	22.5.40	Train nearby. (*739*)

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AREA	DATE OF ATTACK	OBJECTIVES BOMBED
KIEL		
	6.6.40	Oil depot. (*845*)
	2.7.40	Naval base and "Scharnhorst." (*991*)
	5.7.40	Naval base and "Scharnhorst." (*1030*)
	6.7.40	Naval base. (*1043*)
	7.7.40	Shipbuilding yard. (*1049*)
	9.7.40	Naval base and dockyards. (*1074*)
	13.7.40	Naval base. (*1117/1118*)
	4.8.40	Docks. (*1287*)
	6.8.40	Various objectives. (*1299*)
	8.8.40	Dockyard. (*1312*)
	20.8.40	Naval base. (*1444*)
	28.8.40	Docks and naval dockyard. (*1518/1519*)
	5/6.9.40	Oil tanks. (*1638*)
	9/10.9.40	Dockyards. (*1677*)
	23/24.9.40	Canal entrance. (*1806*)
	25/26.9.40	Naval dockyards. (*1824/1825*)
	8/9.10.40	Power station. (*1948/1952/1954*)
	10/11.10.40	Krupp's shipbuilding yards. (*1967/1968*)
	11/12.10.40	Docks. (*1977/1981*)
	13/14.10.40	Naval base. (*1993*)
	15/16.10.40	Naval base and oil depots, and Deutsche Werke shipbuilding yards. (*2009*)
	16/17.10.40	Deutsche Werke and Germania shipyards, warships in dock. (*2018/2019*)
	18/19.10.40	Shipyards. (*2034*)
	25/26.10.40	Power station, shipbuilding yards, oil storage. (*2091/2092*)
	28/29.10.40	Deutsche Werke yards. (*2117/2118*)
	3/4.11.40	Naval dockyards. (*2172/2173*)
	10/11.11.40	Docks and shipping. (*2232/2235*)
	15/16.11.40	Dockyard. (*2279/2280*)
	19/20.11.40	Deutsche Werke naval shipbuilding yards. (*2315/2318*)
	25/26.11.40	Shipyards and docks, gasworks. (*2368/2370*)
	13/14.12.40	Shipbuilding yards and docks. (*2516/2517*)
	15/16.12.40	Shipyards. (*2532/2534*)
KLOPPENBURG		
	10/11,10.40	Aerodrome. (*1967/1971*)
	5/6.11.40	Searchlights and A.A. batteries near Kloppenburg. (*2185/2190*)
KNAPSACK		
	23.8.40	Electric power station. (*1470*)
	25.8.40	,, ,, ,, (*1488*)
KOCHEM		
	14.8.40	Factories. (*1375*)
KÖLLEDA		
	17.8.40	Aircraft stores. (*1413*)
KÖNIGSHOFEN		
	9/10.10.40	Rail communications and goods yards. (*1962*)
KREFELD		
	22.5.40	Aachen-Krefeld railway line. (*738*)
	4.6.40	Searchlights. (*834*)
	2.8.40	Supply depots. (*1278*)
	5.8.40	Aerodrome. (*1291/1294*)
	7.8.40	,, (*1304*)
	11.8.40	,, (*1337*)
	13/14.8.40	Railway junction near Krefeld. (*1375*)
	6/7.9.40	Railway sidings. (*1646*)
	7/8.9.40	Aerodrome. (*1663*)
	9/10.9.40	Railway junction. (*1677*)
	14/15.9.40	Rail centres, etc. (*1725/1729*)
	17/18.9.40	Distribution centres. (*1739*)
	18/19.9.40	,, ,, (*1759*)
	19/20.9.40	Railway yard. (*1769*)
	20/21.9.40	Communications and goods yards. (*1782/1785*)
KREFELD (*continued*)		
	9/10.10.40	Aerodrome. (*1962*)
	15/16.10.40	Goods yards. (*2009*)
	27/28.10.40	,, ,, (*2108/2112*)
	28/29.10.40	Railway yards. (*2117/2118*)
	29/30.10.40	Goods yards. (*2130*)
KREUZBRUCH		
	13/14.11.40	Aerodrome. (*2259*)
LANGENHAGEN		
	27.6.40	Aerodrome. (*966*)
LANGEOOG		
	19/20.7.40	Aerodrome. (*1170*)
LASTRUP		
	1.7.40	Aerodrome. (*1188*)
	13.8.40	,, (*1362*)
	31.8.40	,, (*1578*)
	3/4.9.40	,, (*1613*)
LAUTA		
	22/23.9.40	Aluminium works. (*1795/1796*)
LEHE		
	21.7.40	Aerodromes. (*1178*)
LEIPZIG		
	26.8.40	Various objectives. (*1512*)
	29.8.40	Aeroplane factory. (*1531*)
	1/2.9.40	Munition factory. (*1588/1596*)
	16/17.10.40	Two factories south-west of Leipzig. (*2018/2019*)
	29/30.10.40	Industrial plant. (*2130*)
	23/24.11.40	Goods yards, railway stations. (*2349/2350/2352*)
LEMFÖRDE		
	22.6.40	Trains 1 mile north of Lemförde. (*940*)
LEUNA		
	17.8.40	Hydrogenation plant (I.G. synthetic-oil plant). (*1410/1413*)
	27.8.40	I.G. Farbenindustrie chemical plant. (*1511/1512*)
	30/1.10.40	Oil plants. (*1875/1876*)
	10/11.10.40	Oil plant. (*1967/1971*)
	16/17.10.40	Synthetic - oil plant, power station and factory. (*2018/2019*)
	26/27.10.40	Oil plant. (*2101/2102*)
	29/30.10.40	Oil plant and storage plant. (*2130*)
	6/7.11.40	Synthetic-oil plant. (*2193/2195*)
	13/14.11.40	I.G. Farbenindustrie oil plant. (*2256/2259*)
	18/19.11.40	Synthetic-oil works. (*2304/2307*)
	19/20.11.40	Oil plant, railway junction near Leuna. (*2315/2318*)
LEVERKUSEN		
	14.7.40	Munitions works. (*1124*)
	27.8.40	Chemical works. (*1511*)
	31/1.9.40	Bayer explosives factory. (*1578*)
	2/3.9.40	,, ,, ,, (*1598*)
LINGEN		
	22.6.40	Station and goods train. (*940*)
	26.6.40	Railway bridge. (*959*)
	13.8.40	Aerodrome. (*1362*)
	23.8.40	,, (*1470/1471*)
	14/15.10.40	Railway sidings. (*2001/2004*)
LINTORF		
	13/14.11.40	Battery of coke ovens. (*2256/2259*)
LIPPSTADT		
	14.7.40	Railway junction. (*1124*)
	13.8.40	Munitions factory. (*1362*)
LOHAUSEN		
	30.8.40	Aerodrome. (*1545*)
LÜBECK		
	19.7.40	Autobahn south of Lübeck. (*1161*)
	25/26.9.40	Various objectives. (*1824*)
	18/19.10.40	Commercial docks. (*2036*)
	13/14.11.40	Aerodrome. (*2259*)

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AREA	DATE OF ATTACK	OBJECTIVES BOMBED
LUDWIGSHAFEN		
	20/21.6.40	Marshalling yard. (929)
	27.6.40	Explosives factory. (966)
	8.7.40	Various objectives. (1062)
	12.7.40	Munitions works. (1105)
	10.8.40	,, ,, (1331)
	25.8.40	Oppau nitrogen plant of I.G. Farbenindustrie. (1488/1489)
	29.8.40	Oil receiving depot. (1545)
	1/2.9.40	Oil plants. (1586)
	2/3.9.40	Oil installations. (1598)
	6/7.11.40	Port. (2193/2195)
	28/29.11.40	Sidings and goods yards, railway bridge between Ludwigshafen and Mannheim. (2391/2393)
	3/4.12.40	Goods yards. (2436/2437)
	16/17.12.40	Aniline dye factory. (2539/2544)
	18/19.12.40	Industrial buildings. (2555/2557)
	22/23.12.40	Various objectives. (2593/2597)
	23/24.12.40	Industrial objectives. (2603)
LÜNEN		
	20.6.40	Various objectives. (926)
	4.7.40	Railway junctions. (1017)
	20.7.40	Main railway line. (1170)
	14.8.40	Munitions factory. (1375)
	16.8.40	,, ,, (1399)
	25/26.9.40	Main line track. (1824)
	15/16.10.40	Various objectives and supply train near Lünen. (2009/2012)
	18/19.10.40	Aluminium factory. (2034/2036)
	20/21.10.40	,, ,, (2049)
	22/23.11.40	Railway sidings. (2343/2344)
LÜTZEN		
	19/20.11.40	Mitteldeutsche oil plant. (2315/2318)
MAGDEBURG		
	24.7.40	Aerodrome. (1205)
	14.8.40	,, (1375)
	22.8.40	Brabag synthetic-oil plant. (1461)
	29.8.40	Aerodrome. (1531)
	31.8.40	Oil supply depot. (1562)
	31/1.9.40	Oil plant. (1578/1580)
	3/4.9.40	Oil storage tanks. (1612/1613)
	4/5.9.40	Oil stocks. (1624)
	24/25.9.40	Railway communications near Magdeburg. (1815/1817)
	28/29.9.40	Aerodrome. (1858)
	29/30.9.40	Oil plant. (1869)
	30/1.10.40	Munitions factory near Magdeburg. (1875)
	10/11.10.40	Oil plant (Braunkohlen Benzin works.) (1967/1971)
	14/15.10.40	Oil plant and aerodrome. (2001/2004)
	15/16.10.40	Oil plants. (2009)
	23/24.10.40	,, ,, (2077)
	27/28.10.40	Braunkohlen Benzin oil plant, and aerodrome. (2108/2112)
	29/30.10.40	Oil plants and storage plant. (2127/2130)
	1/2.11.40	Synthetic-oil plant of Braunkohlen Benzin A.G., power station. (2157/2161)
	5/6.11.40	Searchlights and A.A. batteries. (2185/2190)
MAINZ		
	6/7.11.40	Railway yards. (2195)
	8/9.11.40	Railway communications. (2212)
	28/29.11.40	Military storehouses near Mainz. (2393)
MANNHEIM		
	4/5.6.40	Oil storage plant. (839)
	1/2.8.40	Railway sidings. (1276)
	23.8.40	Railway junction. (1470/1471)
	24.8.40	Railway sidings. (1479)
	28.8.40	Supply depot and oil tanks. (1518/1519)
	29/30.8.40	Autobahn east of Mannheim (1545)
	1/2.9.40	Goods yards. (1586/1588)
	6/7.9.40	Railway sidings. (1646)
MANNHEIM *(continued)*		
	7/8.9.40	Rail depots. (1663)
	11/12.9.40	Key rail centre and goods yards. (1702/1704)
	14/15.9.40	Supply depot and goods yards. (1725/1729)
	18/19.9.40	Distribution centres. (1770)
	19/20.9.40	Railway yards. (1777)
	20/21.9.40	Communication centres and goods yards. (1782/1785)
	25/26.9.40	Rail communication centres. (1824/1825)
	27/28.9.40	Railway yards. (1854)
	28/29.9.40	,, ,, (1858)
	30.9.40	Railway. (1867)
	30/1.10.40	Goods yards. (1875/1876/1878)
	7/8.10.40	Goods yard and railway centres. (1935/1943)
	8/9.10.40	Goods yards. (1948/1952)
	27/28.10.40	,, ,, (2108/2112)
	28/29.10.40	Railway yards. (2117/2118)
	6/7.11.40	River port. (2193/2195)
	8/9.11.40	Goods yards. (2219)
	10/11.11.40	Factory and railway junction (2232/2235)
	28/29.11.40	Submarine-engine factory, coal-gas works, railway goods yards. (2391/2393)
	3/4.12.40	Goods yards and railway junctions. (2436/2437)
	11/12.12.40	Power station, railways and sidings, inland harbour. (2501/2504)
	16/17.12.40	Docks, factories, railway communications and railway stations. Various objectives at Neckarstadt. (2539/2544)
	17/18.12.40	Industrial objectives. (2547)
	18/19.12.40	Railway junctions and main station. petroleum depot. (2555/2557)
	21/22.12.40	Industrial objectives. (2586/2587)
	22/23.12.40	Main railway station. (2593/2597)
MARNHEIM		
	1/2.9.40	Industrial sheds. (1585)
MECKLENBURG		
	24.6.40	Marshalling yards and railway junction. (945)
MEIDERICH		
	2.7.40	Blast furnace. (991)
MERSEBURG		
	10/11.10.40	Aerodrome. (1967/1971)
MERZIG		
	3/4.9.40	Blast furnace. (1612/1613)
METELEN		
	11/12.9.40	Aerodrome. (1702)
MIDLUM		
	17/18.9.40	Aerodrome. (1759)
MISBURG		
	20.5.40	Oil storage tanks. (720)
	19.6.40	,, ,, ,, (913)
	27.6.40	Oil refinery. (966)
	1.8.40	Oil refineries. (1266)
	3.8.40	Oil depot. (1270)
	14/15.10.40	Oil refineries. (2001/2004)
	27/28.10.40	Oil supply centre. (2108/2112)
MONHEIM		
	4.6.40	Munitions works. (834)
	5.6.40	Oil storage plant. (839)
	26.6.40	Oil refinery. (959)
	29.6.40	Factory, east bank of Rhine near Monheim. (978)
	10.7.40	Oil refinery. (1087)
	13.7.40	Various objectives. (1117/1118)
	14.7.40	Oil refinery and mineral oil works. (1123/1124)
	15.7.40	Oil tanks. (1131)
	31.7.40	Oil refineries. (1263/1264)

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AREA	DATE OF ATTACK	OBJECTIVES BOMBED
MONHEIM (*continued*)		
	4.8.40	Oil refinery. (*1286/1288*)
	11/12.9.40	Oil plant. (*1704*)
MÖRS		
	7.8.40	Arms factory near Mörs. (*1304*)
	8/9.11.40	Railway communications. (*2212/2219*)
MÜLHAUSEN		
	19.7.40	Aerodrome west of Mülhausen (*1161*)
	19.8.40	Habsheim aerodrome at Mülhausen. (*1432*)
MÜLHEIM		
	23.6.40	Aerodrome. (*951*)
	9/10.10.40	Air base near Mülheim. (*1962*)
	21/22.12.40	Hangars. (*2586/2587*)
MÜNCHEN-GLADBACH		
	19.6.40	Railway junction. (*913*)
	20.6.40	Various objectives. (*926*)
	26.6.40	Main railway line. (*1223*)
	7.8.40	Buildings damaged. (*1304*)
	14.8.40	Munitions factory. (*1375*)
	10/11.10.40	Aerodrome. (*1971*)
	19/20.12.40	Goods yards. (*2564/2567*)
MUNICH		
	1/2.9.40	B.M.W. aero-engine works. (*1586/1588*)
	8/9.11.40	Railway stations and goods yards. (*2212/2216/2218*)
MÜNSTER		
	20.6.40	Various objectives. (*926*)
	21.6.40	Aerodrome. (*929*)
	30.6.40	,, (*981*)
	10.8.40	,, (*1326*)
	19/20.9.40	Aerodrome—Münster-Handorf. (*1777*)
	23/24.9.40	Goods yards. (*1803*)
	26/27.9.40	Aerodrome. (*1837*)
	29.9.40	Railway yard. Aerodrome—Münster-Handorf. (*1858*)
	7/8.10.40	Aerodrome. (*1935/1943*)
	12/13.10.40	Air base and barracks near Münster. (*1990*)
	24/25.10.40	Rail junctions and goods yards. (*2083/2085*)
	29/30.10.40	Canal and goods yards near Münster. (*2130*)
	10/11.11.40	Railway junction (*2232/2235*)
MUTTERSTADT		
	12.7.40	Blast furnaces. (*1105*)
NECKARAU		
	19/20.9.40	Goods yards. (*1777*)
NEHEIM		
	25.8.40	Railway junction and wharf. (*1488*)
NEUHALDENSLEBEN		
	21/22.8.40	Canal south-east of Neuhaldensleben. (*1461*)
	14/15.10.40	Industrial targets. (*2001/2004*)
	15/16.10.40	Various objectives. (*2009/2012*)
NEUMÜNSTER		
	4.7.40	Railway junction. (*1017*)
NEUSS		
	28/29.11.40	Sidings and goods yards. (*2393*)
	4/5.12.40	Railway goods yards. (*2445/2446*)
NIENBURG		
	4/5.9.40	Goods yards. (*1624/1625*)
NOHRA		
	19/20.11.40	Industrial buildings. (*2315/2318*)
NORDENHAM		
	29.8.40	Oil storage. (*1531*)
	1/2.9.40	Oil storage tanks. (*1588/1590*)
NORDERNEY		
	13.12.39	Mine-laying aircraft operations from Norderney. (*232*)
	15.12.39	Seaplanes at moorings. (*239*)
	7.6.40	Aerodrome. (*852*)
	18.6.40	German destroyers. (*904*)
NORDERNEY (*continued*)		
	20.6.40	Various objectives. (*926*)
	30.6.40	Aerodrome. (*981*)
	1.7.40	,, (*986*)
	7.7.40	Seaplane base. (*1049*)
	14.7.40	Aerodrome. (*1124*)
	16.7.40	,, (*1132*)
	20.7.40	Aerodrome and docks. (*1170*)
	5/6.9.40	Seaplane base. (*1635*)
	11/12.9.40	Aerodrome. (*1702*)
	12/13.9.40	Seaplane base. (*1708*)
	10/11.10.40	,, ,, (*1971*)
	11/12.10.40	Aerodrome. (*1981*)
	13/14.10.40	Seaplane base. (*1993/1994*)
	13/14.11.40	,, ,, (*2259*)
NORDHAUSEN		
	14/15.10.40	Aerodrome. (*2004*)
	15/16.10.40	Railway junction. (*2009*)
	29/30.10.40	,, ,, (*2130*)
NORDHORN		
	21.7.40	Aerodrome. (*1178*)
NUREMBERG		
	5/6.9.40	Objectives in woods, and autobahn. (*1635/1638*)
	8/9.11.40	Siemens-Schuckert works. (*2212/2219*)
OBERHARZ MOUNTAINS		
	3/4.9.40	Armament factory and munition stores in forest. (*1612*)
	4/5.9.40	Various objectives. (*1624/1625*)
	5/6.9.40	,, ,, (*1638*)
OBERHAUSEN		
	10/11.10.40	Blast furnace. (*1967/1971*)
	7/8.11.40	Blast furnace, steel works. (*2202/2205*)
OBERNDORF		
	30.8.40	Shipping and wharves. (*1545*)
OHRTERMESCHE		
	27.6.40	Railway station and goods train. (*940*)
OLDENBURG		
	20.7.40	Railway sidings. (*1170*)
	24.7.40	,, ,, (*1206*)
	2/3.10.40	Aerodrome near Oldenburg. (*1893/1896*)
	8/9.10.40	Aerodrome. (*1948/1954*)
	5/6.11.40	Searchlights and A.A. batteries and large warehouse. (*2185/2190*)
OSNABRÜCK		
	1/2.6.40	Marshalling yard. (*816*)
	3.6.40	Road and rail junctions. (*826*)
	27.6.40	Marshalling yards. (*966*)
	28.6.40	,, ,, (*970*)
	29.6.40	,, ,, (*978*)
	1.7.40	,, ,, (*986*)
	4.7.40	Railway junction. (*1017*)
	5.7.40	Communications. (*1030*)
	8.7.40	Goods yards. (*1062*)
	14.7.40	,, ,, (*1123*)
	16.7.40	,, ,, (*1132*)
	24.7.40	Sidings and factory near Osnabrück. (*1206*)
	1.8.40	Supply depot. (*1270*)
	14.8.40	Railway yard north-west of Osnabrück. (*1375*)
	31/1.9.40	Goods yards. (*1580*)
	12/13.9.40	,, ,, (*1708*)
	14/15.9.40	Distributing centre. (*1725/1729*)
	17/18.9.40	,, ,, (*1739*)
	18/19.9.40	Goods yards, etc. (*1759*)
	20/21.9.40	Goods yards. (*1770/1771*)
	25/26.9.40	Rail communication centres. (*1824/1825*)
	29/30.9.40	Goods junctions. (*1867*)
	30/1.10.40	Goods yard and rail communications. (*1875/1876/1878*)
	5/6.10.40	Goods yards. (*1917*)
	7/8.10.40	Goods yards and railway centre. (*1935/1943*)

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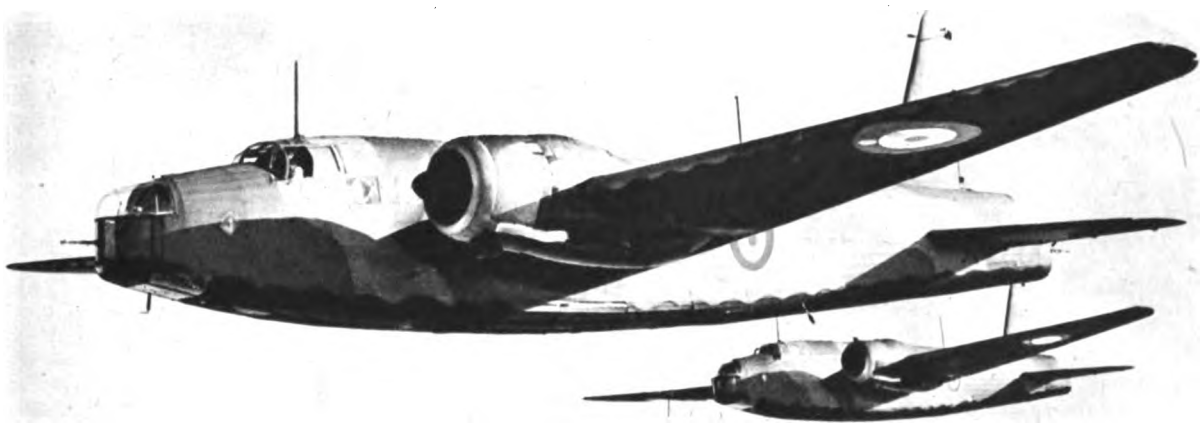
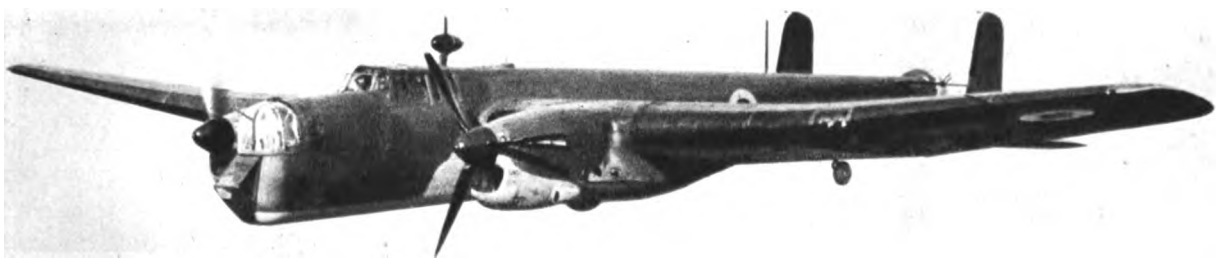


WELLINGTON : This heavy bomber is powered with two 960 h.p. Bristol " Pegasus " engines or Rolls-Royce " Merlin " engines, which give it a maximum speed of 265 m.p.h. and a range of 3,200 miles. It is armed with five machine-guns and will take a bomb-load of 4,665 lbs. It carries a crew of from four to seven.



WHITLEY : This heavy bomber is powered with two 1,030 h.p. Rolls-Royce " Merlin " engines, has a cruising speed of 210 m.p.h. Its range at cruising speed is 1,500 miles and its service ceiling 19,000 feet. It carries a crew of five (two pilots, two gunners and a wireless operator), and weighs nearly 9 tons without bombs.

BLENHEIM : This medium bomber (long-nosed type) is powered with two 920 h.p. Bristol " Mercury " engines which give it a top speed of 295 m.p.h. It carries a crew of three. It has a range of 1,865 miles and a ceiling of 31,500 feet. Carries two machine guns and a bomb load of approximately 6,000 lbs.

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AREA	DATE OF ATTACK	OBJECTIVES BOMBED
OSNABRÜCK (*continued*)		
	18/19.10.40	Goods yards. (*2034*)
	19/20.10.40	Railway yards. (*2041*)
	24/25.10.40	Goods yards. (*2083/2085*)
	25/26.10.40	Industrial objectives near Osnabrück. (*2091/2092*)
	27/28.10.40	Goods yards. (*2108/2112*)
	29/30.10.40	Railway junctions. (*2130*)
	1/2.11.40	Railway junction. (*2157/2161*)
	8/9.11.40	Goods yards. (*2212/2219*)
	19/20.11.40	Railways. (*2315/2318*)
OSTERFELD		
	21.6.40	Military storehouse and marshalling yard. (*929*)
	26.6.40	Marshalling yard. (*959*)
OSTERMOOR		
	5.7.40	Oil feed pipes. (*1031*)
	20.8.40	Oil storage. (*1443*)
	27/28.10.40	Oil supply centre. (*2108/2112*)
OSTHEIM		
	10/11.10.40	Aerodrome. (*1971*)
OTTERSBURG		
	23/24.9.40	Railway south of Ottersburg. (*1806*)
PADERBORN		
	21.6.40	Hangars and sheds. (*929*)
	15.7.40	Aircraft stores. (*1130*)
	16.7.40	Aircraft park. (*1132*)
	19.7.40	Supply depot and aerodrome. (*1161*)
	23.7.40	Aircraft stores. (*1196*)
PILSEN		
	27/28.10.40	Skoda armament works. (*2111/2112*)
	19/20.11.40	,, ,, ,, (*2315/2317*)
PÖLITZ		
	4/5.9.40	Synthetic-oil plant. (*1624*)
	5/6.9.40	,, ,, ,, (*1635/1638*)
	2/3.10.40	Oil plants and docks. (*1893/1896*)
	14/15.10.40	Oil plants. (*2001/2004*)
	26/27.10.40	Norddeutsche Hydrierwerke oil plant. (*2101/2102*)
	28/29.11.40	Synthetic oil-plant. (*2391/2393*)
PRETZSCH		
	6/7.11.40	Railway yard and junction. (*2193/2195*)
QUAKENBRÜCK		
	26.7.40	Aerodrome. (*1223/1224*)
	22.8.40	,, (*1461/1462*)
	29.8.40	,, (*1532*)
RANGSDORF		
	23/24.9.40	Railway station. (*1801/1802*)
RANTUM BAY		
	11.1.40	Various objectives. (*316A*)
RATHENOW		
	29.8.40	Vessels in canal near Rathenow. (*1531*)
REBSTOCK		
	24.7.40	Aerodrome. (*1206*)
RECKLINGHAUSEN		
	20.7.40	Main railway line, south of Recklinghausen. (*1170*)
	21.7.40	Railway sidings. (*1178*)
REES		
	11.5.40	Railway and road junction (*664*)
REGENSBURG		
	5/6.9.40	Oil refineries. (*1635*)
	12/13.1.41	Factory, oil targets. (*2770/2774*)
REISHOLZ		
	2.8.40	Oil refinery. (*12[illegible]8*)
	7.8.40	Refinery. (*1304*)
	16.8.40	Oil refinery. (*1399*)
REISHOLZ (*continued*)		
	29.8.40	Oil refinery (mineral oil and electric power station). (*1531*)
	30.8.40	Power station. (*1545*)
	9/10.10.40	Electric power station. (*1959/1962*)
	10/11.10.40	Rhenania-Ossag oil refinery. (*1967/1971*)
	21/22.10.40	Oil refinery. (*2053/2055*)
	25/26.10.40	Oil target. (*2091/2092*)
RENDSBURG		
	25/26.9.40	Factory. (*1824*)
RHEINBERG		
	21/22.7.40	Aerodrome. (*1188*)
RHEINE		
	1/2.6.40	Motor transport column and bridge. (*816*)
	21/22.6.40	Supply and ammunition trains near Rheine. (*940*)
	23/24.7.40	Road and rail bridges over Dortmund-Ems canal. (*1206*)
	14/15.9.40	Railway junction. (*1729*)
	15/16.9.40	,, ,, (*1739*)
	29/30.10.40	Aerodrome. (*2130*)
	7/8.11.40	Canal locks. (*2205*)
	13/14.11.40	Railway sorting yards. (*2259*)
RHEYDT		
	6.6.40	Marshalling yards. (*845*)
	10.6.40	Various objectives. (*873*)
	15.6.40	Various objectives and railway junction. (*898*)
	18.6.40	Various objectives and goods yards. (*908*)
	19.6.40	Various objectives. (*913/914*)
	27.6.40	Marshalling yard and railway junction. (*966*)
RIESENBECK		
	28.6.40	Barges north of Riesenbeck. (*970*)
RÖTHA		
	22.5.40	Power station. (*747*)
ROTHENBURG		
	21/22.6.40	Aircraft factory and aerodrome. (*940*)
	18/19.7.40	Factories and depots. (*1158*)
	21/22.7.40	Aircraft stores. (*1188*)
	30/1.10.40	Aircraft factory. (*1875/1876*)
RÜDERSDORF		
	25/26.9.40	Munitions factory. (*1823*)
RÜGEN ISLAND		
	14.7.40	Naval barracks. (*1124*)
RUHLAND		
	10/11.11.40	Synthetic-oil refinery. (*2232/2235*)
	19/20.11.40	Synthetic-oil plant. (*2315/2318*)
SAARBRÜCKEN		
	8/9.11.40	Railway communications. (*2212/2219*)
SALZBERGEN		
	27.6.40	Factory. (*966*)
	3.8.40	Oil refinery. (*1281*)
	20.8.40	Oil storage. (*1443*)
	15/16.10.40	Oil refinery. (*2009*)
	6.11.40	Factory and oil refinery. (*2193/2194*)
SALZHOF		
	6.9.40	Oil storage. (*1646*)
SCHILDAU		
	19.6.40	Power station. (*913*)
SCHLEBUSCH		
	2/3.9.40	Dynamite factory. (*1598*)
SCHONEBECK		
	15/16.10.40	Various objectives. (*2009/2012*)
SCHWERTE		
	19.6.40	Marshalling yard. (*913*)
	20.6.40	Various objectives. (*926*)
	28.6.40	Marshalling yards. (*970*)

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AREA	DATE OF ATTACK	OBJECTIVES BOMBED
SCHWERTE (*continued*)		
	30.6.40	Marshalling yards (*981*)
	5.7.40	Communications. (*1030*)
	7.8.40	Supply depot. (*1305*)
	26.8.40	,, ,, (*1500*)
	27.8.40	,, ,, (*1511/1512*)
	3/4.9.40	Goods yards. (*1612*)
	12/13.9.40	Marshalling yards. (*1708*)
	13/14.10.40	Rail junction and motor road viaduct near Schwerte. (*1993/1997*)
	15/16.10.40	Goods yards. (*2009*)
	18/19.10.40	Railways. (*2034*)
SIEDENBURG		
	24/25.10.40	Main line tracks near Siedenburg. (*2085*)
SIEGBURG		
	12.7.40	Blast furnaces. (*1105*)
SOEST		
	2/3.6.40	Railway junction and oil wagons. (*826*)
	19.6.40	Marshalling yards. (*913*)
	27.6.40	Railway sidings. (*966*)
	29.6.40	Marshalling yard. (*978*)
	30.6.40	Various objectives. (*981*)
	5.7.40	Marshalling yard. (*1030*)
	8.7.40	Goods yards. (*1062*)
	14.7.40	,, ,, (*1123*)
	15.7.40	,, ,, (*1130*)
	22.7.40	Goods yards and railway siding. (*1188*)
	24.7.40	Main line junction between Hamm and Soest. (*1206*)
	26.7.40	Railway siding. (*1223*)
	31.7.40	Goods yard. (*1264*)
	9.8.40	Supply depot. (*1322*)
	9/10.8.40	Railway. (*1326*)
	10.8.40	Rail communications. Supply depot. (*1337/1338*)
	12.8.40	Various objectives. (*1348*)
	16.8.40	Railway yard. (*1399*)
	23.8.40	Railway junction. (*1470*)
	30.8.40	Goods yards. (*1546*)
	31.8.40	,, ,, (*1562*)
	31/1.9.40	,, ,, (*1580*)
	1/2.9.40	,, ,, (*1588*)
	5/6.9.40	,, ,, (*1638*)
	6/7.9.40	Railway sidings. (*1646*)
	14/15.9.40	Distributing centres, etc. (*1739*)
	17/18.9.40	Goods yards, etc. (*1759*)
	20/21.9.40	Goods yards and communications. (*1782*)
	29/30.9.40	Railways. (*1867*)
	1/2.10.40	Goods yard. (*1881/1882/1888*)
	7/8.10.40	Railway centre and goods yard. (*1935/1943*)
	10/11.10.40	Railways and goods yards. (*1967/1971*)
	15/16.10.40	Goods yards. (*2009*)
	8/9.11.40	,, ,, (*2212/2219*)
SOLINGEN		
	22.11.40	Factory. (*2333/2334*)
SOLTAU		
	19.7.40	Two supply trains south of Soltau. (*1158*)
SPEYER		
	16/17.12.40	Aircraft factory. (*2544*)
SPICH		
	31/1.9.40	Ammunition factory. (*1578*)
STADE		
	11/12.9.40	Aerodrome (*1702*)
	18/19.10.40	,, (*2036*)
	21/22.10.40	,, (*2053/2055*)
STENDAL		
	28/29.9.40	Railway junction. (*1858*)
STERKRADE		
	19.6.40	Oil tanks near Sterkrade. (*913*)
	26.7.40	Oil supplies and chemical works. (*1223*)
STERKRADE (*continued*)		
	5.8.40	Oil plant. (*1291/1294*)
	24.8.40	,, ,, (*1478*)
	1/2.10.40	Oil plant and railway junction. (*1881/1882/1888*)
	29/30.10.40	Oil plant and storage. (*2127/2130*)
STETTIN		
	2/3.10.40	Harbour works near Stettin. (*1893/1896*)
	26/27.10.40	Oil refinery and storage plant. (*2101/2102*)
	28/29.11.40	Stettiner Oderwerkestettin shipbuilding yards. (*2391/2393*)
STOCKUM		
	17/18.9.40	Goods yards. (*1759*)
STRALSUND		
	29/30.10.40	River bridge. (*2130*)
STUTTGART		
	26.8.40	Daimler-Benz factory. (*1488*)
	1/2.9.40	Bosch Ignition Plugs factory. (*1588*)
	2/3.9.40	Bosch Ignition Plugs factory. (*1598*)
	29/30.9.40	Bosch factory and coal-gas plant. (*1865*)
	8/9.11.40	Railway communications. (*2212/2219*)
SUNDERN		
	15.9.40	Rail communications. (*1729*)
SYLT		
	13.12.39	Over Sylt. (*232*)
	15.12.39	Bases near Sylt. (*239*)
	10.1.40	Bases near Sylt. (*309*)
	24.4.40	Aerodrome. (*593*)
	5.7.40	Aerodrome near Sylt. (*1030*)
	11/12.10.40	Aerodrome. (*1981*)
	14/15.10.40	,, (*2004*)
THÜRINGEN FOREST		
	3/4.9.40	Various objectives. (*1614*)
	4/5.9.40	,, ,, (*1624*)
TORGAU		
	22/23.9.40	Railway junction. (*1796*)
	12/13.10.40	Blast furnace. (*1986*)
TRIER		
	10.8.40	Aerodrome near Trier. (*1331*)
	19/20.9.40	Bridge over Rhine. (*1777*)
	21.9.40	Aerodrome. (*1782*)
TÜBINGEN		
	8/9.11.40	Aerodrome. (*2219*)
ÜBERLINGEN		
	8/9.11.40	Factory near Überlingen. (*2219*)
ULM		
	8/9.11.40	Factory. (*2219*)
VAREL		
	5.7.40	Aerodrome. (*1030*)
	20/21.9.40	,, (*1782*)
	25/26.9.40	,, (*1824*)
VECHTA		
	3/4.9.40	Aerodrome. (*1613*)
VEGESACK		
	5/6.11.40	Submarine building yards (Vulcan shipyards). (*2185/2190*)
WALDECK		
	12/13.10.40	Electric power station. (*1986*)
WALDSHUT		
	19.8.40	Electro-chemical works. (*1432*)
WANGEROOG		
	11/12.9.40	Aerodrome. (*1702*)
	11/12.10.40	,, (*1981*)
WANNE EICKEL		
	18.6.40	Various objectives and oil storage. (*908*)
	28.7.40	Oil depot and railway sidings. (*1223*)
	12.8.40	Krupp Treibstoffwerke oil plant. (*1345/1348*)

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AREA	DATE OF ATTACK	OBJECTIVES BOMBED
WANNE EICKEL (*continued*)		
	22/23.11.40	Oil tanks, Krupp's synthetic-oil plant. (*2343/2344*)
	23/24.11.40	Krupp's synthetic-oil plant. (*2349/2352*)
WARENDORF		
	9.10.40	Railway sidings. (*1957/1959*)
WARNEMÜNDE		
	25/26.9.40	Seaplane base. (*1824*)
WEDAU		
	6.6.40	Marshalling yards. (*845*)
	7.6.40	Goods yard nearby. (*852*)
WENZENDORF		
	5.7.40	Aircraft factory. (*1030*)
	20.7.40	Aircraft factory (Dornier works) (*1169*)
	21.7.40	Factories and adjoining aerodromes. (*1178*)
	24.7.40	Aircraft factory. (*1205*)
	25.7.40	,, ,, (*1212*)
WERL		
	10.8.40	Aerodrome. (*1326*)
WERNIGERODE		
	24.7.40	Aerodrome. (*1206*)
WESEL		
	11.5.40	Bridge over Rhine near Wesel. (*664*)
	3.6.40	Hangars. (*826*)
	5.6.40	Marshalling yard. (*839*)
	19.6.40	Railway junction. (*913*)
	1.7.40	Refinery on quay. (*987*)
	2.7.40	Aerodrome. (*991*)
	8.7.40	,, (*1062*)
	19.7.40	,, (*1158*)
	7/8.9.40	,, (*1663*)
	2/3.10.40	,, (*1893/1896*)
	3.10.40	Iron works near Wesel. (*1901*)
	9/10.10.40	Goods yards and communications. (*1962*)
	13/14.10.40	Aerodrome. (*1993/1997*)
WESER-ELBE CANAL		
	22.7.40	Barges on the canal. (*1188*)
	20.8.40	Bridge and main railway line. (*1443*)
WESERMUNDE		
	20/21.7.40	Docks and aerodrome. (*1178*)
	10/11.9.40	Aerodrome. (*1686*)
	17/18.9.40	,, (*1759*)
	11/12.10.40	Docks, etc. (*1977*)
	14/15.10.40	Aerodrome. (*2004*)
WESSELING		
	30.8.40	Union Rheinische Braunkohlen oil plant. (*1545*)
	1.9.40	Union Rheinische Braunkohlen oil plant. (*1578*)
	10/11.10.40	Oil plant. (*1967/1971*)
	20/21.10.40	,, ,, (*2049*)
	26/27.10.40	Union Rheinische Braunkohlen oil plant. (*2101/2102*)
	7/8.11.40	Union Rheinische Braunkohlen oil plant. (*2202/2205*)
	21/22.12.40	Synthetic-oil plant. (*2586/2587*)
WESTERHOLT		
	1/2.10.40	Goods yard. (*1881/1882*)
WESTERLAND		
	24.4.40	Aerodrome. (*591/593/598*)
	7.7.40	,, (*1062*)
	2/3.10.40	Air base. (*1896*)
WESTHOFEN		
	15.9.40	Rail communications. (*1729*)
WILHELMSHAVEN		
	5.9.39	German warships. (*12*)
	5.4.40	Warship near Wilhelmshaven. (*512*)
	5.7.40	Naval base, dock area and oil container. (*1030*)
WILHELMSHAVEN (*continued*)		
	6.7.40	Naval base. (*1043*)
	8.7.40	Naval barracks. (*1062*)
	9.7.40	Dockyards and warships. (*1074*)
	10.7.40	Naval dockyards. (*1087*)
	14.7.40	Docks. (*1123*)
	20.7.40	,, (*1170*)
	21.7.40	Docks and warships. (*1178*)
	24.7.40	Bauhafen. (*1206*)
	25.7.40	Docks. (*1212*)
	28.7.40	,, (*1242*)
	11.8.40	Dockyard. (*1338*)
	28.8.40	Docks. (*1518*)
	9/10.9.40	Dockyards. (*1677*)
	10/11.9.40	Naval barracks and naval yards. (*1686/1690*)
	11/12.9.40	Docks and shipyards. (*1702*)
	14/15.9.40	Shipping, dockyards, etc. (*1739*)
	28/29.9.40	Dockyards. (*1858*)
	2/3.10.40	Docks. (*1893/1896*)
	7/8.10.40	Naval dockyard. (*1935/1943*)
	8/9.10.40	Naval base. (*1948/1952/1954*)
	10/11.10.40	Warships and docks. (*1967/1968*)
	11/12.10.40	Docks. (*1977/1981*)
	13/14.10.40	Naval base. (*1993*)
	20/21.10.40	Naval docks and the Bauhafen. (*2048/2049*)
	24/25.10.40	Docks and shipping. (*2085*)
	27/28.10.40	Docks. (*2108/2112*)
	28/29.10.40	Naval base, docksides and barracks. (*2117/2118*)
	29/30.10.40	Naval base. (*2127/2130*)
	13/14.11.40	Docks. (*2259*)
	24/25.11.40	,, (*2359/2363*)
	25/26.11.40	Naval works and dockyards. (*2368/2370*)
	1/2.12.40	Naval shipbuilding yards (Marinewerft) and factory buildings. (*2413/2416*)
	22.12.40	Dockyard. (*2589*)
	8/9.1.41	Naval dockyard and harbour. (*2729/2735*)
	11/12.1.41	Shipbuilding yards. (*2760*)
	15/16.1.41	Bauhafen. (*2797/2798*)
	16/17.1.41	Railway station and oil storage tanks. (*2811/2818*)
	29/30.1.41	Various objectives. (*2898*)
WISMAR		
	28.6.40	Aircraft factory. (*970*)
	20.7.40	Dornier aircraft factory. (*1169*)
	21.7.40	Factories. (*1178*)
	22.7.40	Dornier works. (*1188*)
	25.7.40	Aircraft factory. (*1212*)
	6.8.40	Various objectives. (*1299*)
	9/10.9.40	Docks. (*1677*)
	23/24.9.40	Docks, shipyards and aircraft works. (*1806*)
	23/24.10.40	Dornier factories. (*2077*)
WITTEN		
	13.8.40	Blast furnace near Witten. (*1362*)
WITTENBURG		
	14/15.10.40	Industrial targets near Wittenburg. (*2004*)
WUNSTORF		
	24.7.40	Aerodrome. (*1206*)
	20.8.40	Railway junction. (*1443*)
WÜRZBURG		
	5/6.9.40	Aerodrome. (*1635*)
ZSCHORNEWITZ		
	20.8.40	Electric power station. (*1443*)
ZWEIBRÜCKEN		
	7/8.9.40	War factories. (*1663*)
ZWISCHENAHN		
	21.7.40	Seaplane base. (*1178*)
	2/3.10.40	Aerodrome. (*1893/1896*)

(*For attacks subsequent to 1st February, 1941, see Air Ministry Communiqués Nos. 2899 and onwards.*)

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DETAILS OF ADDITIONAL ATTACKS

Weather conditions during the months of February and March, 1941, prevented the carrying out of bombing operations on a full scale and a reduction in the number of attacks, both by British machines on German territory and by German machines on the British Isles, resulted. Below are given details of bombing attacks on Germany made by the Royal Air Force, subsequent to the list contained in the booklet, from the night of February 1st, 1941, to April 15th, 1941.

AREA	*DATE OF ATTACK*	*OBJECTIVES BOMBED*
BERLIN		
	12/13.3.41	Railway yards, railway junctions, barracks. (*3267/3271*)
	23/24.3.41	Goods yards, factories and railway stations. (*3378/3382/3383*)
	9/10.4.41	Railway stations, goods yards and centre of city, etc. (*3561/3564*)
BORKUM		
	2.3.41	Aerodrome and barracks. (*3168/3170*)
	10.4.41	Buildings and troops. (*3570/3572*)
BREMEN		
	11/12.2.41	Industrial targets. (*2999*)
	12/13.3.41	Industrial area. Plant for manufacture of war material, and goods yard. (*3267/3271*)
	13/14.3.41	Docks. (*3283/3284*)
	17/18.3.41	Industrial centre, docks and shipbuilding yards. (*3320/3321*)
	23/24.3.41	Various objectives. (*3382*)
	31/1.4.41	Shipbuilding yards. (*3459*)
BREMERHAVEN		
	11/12.3.41	Docks and warehouses. (*3252/3255*)
	31/1.4.41	Various objectives. (*3459*)
	7/8.4.41	Port. (*3532/3535*)
	8/9.4.41	Port. (*3543*)
COLOGNE		
	26/27.2.41	Industrial targets. Wharves and warehouses along river. (*3134/3142*)
	1/2.3.41	Industrial targets. (*3161/3166/3170*)
	3/4.3.41	Industrial centre. (*3184*)
	10/11.3.41	Industrial centre. Railway communications and goods yards. Approaches to Hohenzollern bridge. (*3241/3243*)
	19/20.3.41	Railway and industrial quarter. Goods yards. Hohenzollern bridge. (*3337/3339/3342*)
	27/28.3.41	Railway goods yards. Industrial centre. (*3413/3414*)
DUISBURG		
	14/15.2.41	Industrial objective. Inland port and other targets at Duisburg-Ruhrort. (*3027/3031*)
DÜSSELDORF		
	4/5.2.41	Various objectives. Train and railway junctions near Düsseldorf aerodrome. (*2937/2942*)
	14/15.3.41	Industrial centre. (*3294/3295*)
	15/16.3.41	Industrial areas. (*3300*)
DÜSSELDORF (*continued*)		
	27/28.3.41	Factory area, main railway station. (*3413/3414*)
	10/11.4.41	Industrial quarter. (*3570/3575*)
EMDEN		
	28/1.3.41	Port and military objectives. (*3152/3156*)
	13/14.3.41	Docks. (*3283/3284*)
	17/18.3.41	Docks. (*3320/3321*)
	18/19.3.41	Docks. (*3328/3331*)
	23/24.3.41	Various objectives. (*3382*)
	31/1.4.41	Industrial centre. (*3459*)
	7/8.4.41	Port. (*3532/3535*)
	8/9.4.41	Port. (*3543*)
	9/10.4.41	Port. (*3561*)
GELSENKIRCHEN		
	14/15.2.41	Oil plants. (*3027/3031*)
	14/15.3.41	Synthetic-oil plants. (*3294/3295*)
HAMBURG		
	13/14.3.41	Shipbuilding yards, docks, factories, aerodrome buildings. (*3283/3284*)
HANOVER		
	10/11.2.41	Industrial targets. (*2988/2992*)
	11/12.2.41	Various objectives. (*2999*)
	23/24.3.41	Factories, etc. (*3378/3382*)
KIEL		
	11/12.3.41	Naval base. Shipbuilding yards. Industrial centre. (*3252/3255*)
	18/19.3.41	Dockyards and industrial centre. (*3328/3331*)
	23/24.3.41	Docks and shipyards. (*3378/3382*)
	7/8.4.41	Submarine building yards and docks. (*3532/3535*)
	8/9.4.41	Dockyards, buildings, warehouses, etc. (*3543/3548*)
MANNHEIM		
	8/9.2.41	Industrial targets. (*2972*)
OLDENBURG		
	17/18.3.41	Searchlights and gun pits near Oldenburg. (*3320/3321*)
	31/1.4.41	Various objectives. (*3459*)
WILHELMSHAVEN		
	21/22.2.41	Dockyards and shipbuilding works. (*3091/3092*)
	28/1.3.41	Naval docks. Bauhafen and Hipper Hafen. (*3152/3156*)
	17/18.3.41	Dockyards. (*3320/3321*)
	18/19.3.41	Docks and industrial targets. (*3328/3331*)

(For attacks subsequent to April 15th see Air Ministry Communiqué No. 3575 and onwards.)

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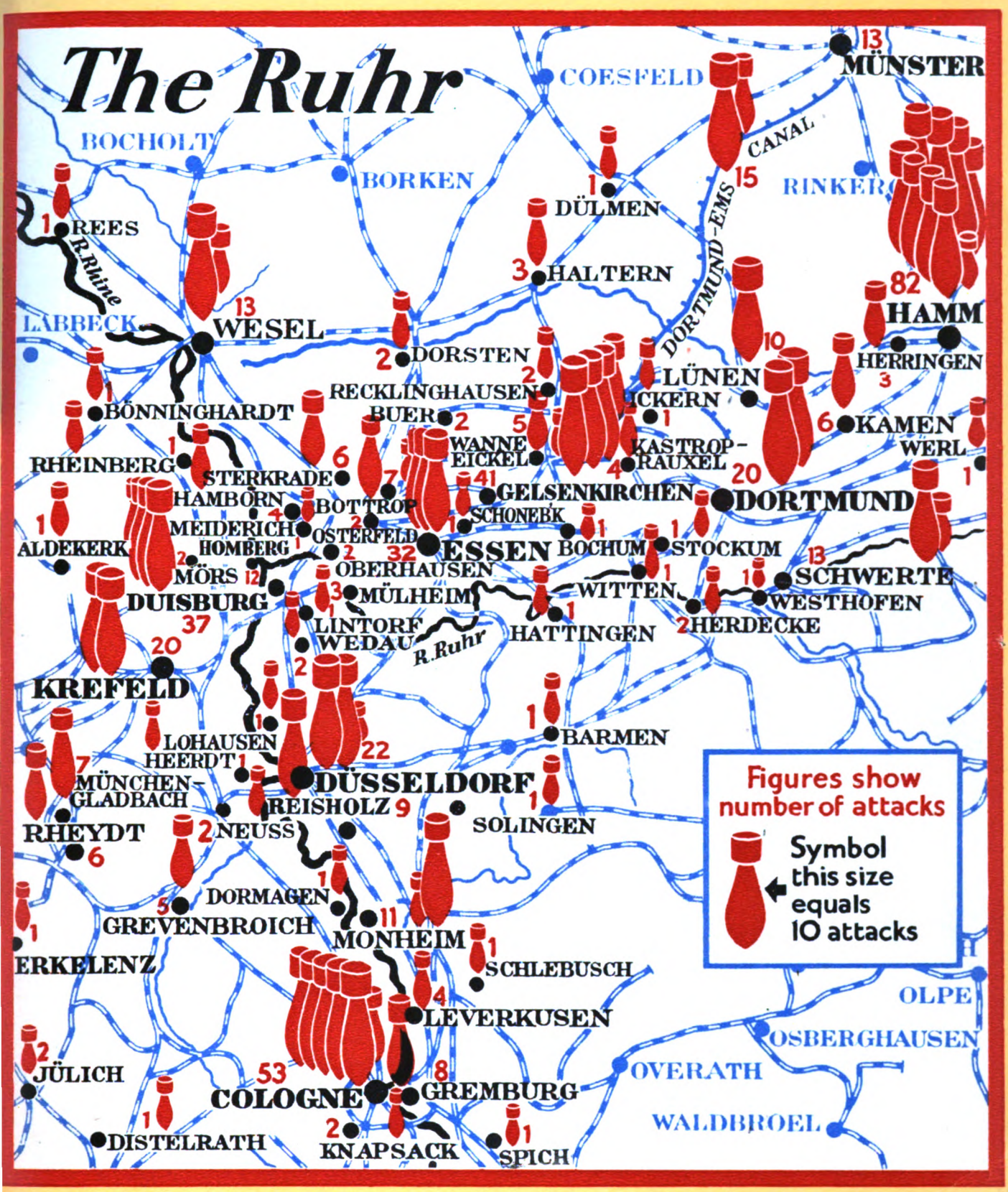

THE RUHR AREA

This map reproduces on a larger scale the important industrial area of the Ruhr indicated by a red square on the complete map of Germany appearing on the inside front cover of this brochure. It reveals the intensive attacks made on this vital area in which are many of the largest factory centres in the German munition and synthetic-oil production industries, crude-oil storage centres and vitally important sections of the German railway system, canal system and chemical industries.

C. & S. and A. P. Wt. No. 32042—3/41

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